ANGELES LINK PHASE 1

GREENHOUSE GAS (GHG) EMISSIONS EVALUATION

FINAL REPORT – DECEMBER 2024

SoCalGas commissioned this GHG Emissions Evaluation from Stantec Consulting Services Inc. The analysis was conducted, and this report was prepared, collaboratively.

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Acronyms and Abbreviations

AB	Assembly Bill
APCD	Air Pollution Control District
AQMD	Air Quality Management District
AR6	IPCC Sixth Assessment Report
CEQA	California Environmental Quality Act
CAAP	Clean Air Action Plan
CARB	California Air Resources Board
CBOSG	Community Based Stakeholder Organization Group
CEC	California Energy Commission
CFR	Code of Federal Regulations
CH_4	Methane
CHC	Commercial Harbor Craft
CHE	Cargo Handling Equipment
CO_2	Carbon Dioxide
CO_2e	Carbon dioxide equivalent
CPUC	California Public Utilities Commission
DOE	Department of Energy
EDF	Environmental Defense Fund
EF	Emission Factor
FARMER	Funding Agricultural Replacement Measures for Emission Reductions

GHG	Greenhouse Gas
GREET	Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation
GSE	Ground Support Equipment
GWP	Global Warming Potential
H_2	Hydrogen
HDV	Heavy-duty vehicle
IPCC	Intergovernmental Panel on Climate change
Kg	Kilogram
MDV	Medium-duty vehicle
MJ	Megajoules
MMBtu	Million British Thermal Units
MMscf	Million standard cubic feet
MMTPY	Million Metric Tonnes per Year
NEPA	National Environmental Policy Act
N_2O	Nitrous Oxide
NETL	National Energy Technology Lab
NREL	National Renewable Energy Lab
O_2	Oxygen
OP	Ordering Paragraph
PAG	Planning Advisory Group
PNNL	Pacific Northwest National Laboratory
psi	Pounds per square inch

RNG	Renewable Natural Gas
SB	Senate Bill
SMR	Steam Methane Reforming
South Coast	South Coast Air Quality Management District AQMD
UC	University of California
UCI	University of California Irvine
DOE	Department of Energy
EPA	Environmental Protection Agency
ZECAP	Zero Emissions for California Ports
ZEV	Zero Emission Vehicle
ZEAT	Zero Emission Advanced Technology

1 EXECUTIVE SUMMARY

Southern California Gas Company (SoCalGas) is proposing to develop a clean renewable hydrogen[1] pipeline system to facilitate transportation of clean renewable hydrogen from multiple regional third-party production sources and storage sites to various delivery points and end users in Central and Southern California, including in the Los Angeles Basin. The CPUC's Phase 1 Decision,[2] approving the Memorandum Account for SoCalGas's proposed Angeles Link, allows SoCalGas to track costs for conducting the feasibility studies. In the Decision, the CPUC defines clean renewable hydrogen as hydrogen that does not exceed 4 kilograms of carbon dioxide equivalent (CO_2e) on a lifecycle basis per kilogram of hydrogen produced and does not use fossil fuel[3] in the hydrogen production process.

This greenhouse gas (GHG) study (GHG Study or Study) is one of the studies established to answer questions raised by the CPUC and other parties to the proceeding. The Decision directs (OP 6 (n)) SoCalGas to provide the findings demonstrating compliance with environmental laws and public policies. To demonstrate how clean renewable hydrogen could support environmental laws and public policies, this Study conducts an initial evaluation of projected GHG emissions from hydrogen infrastructure including those attributable to third-party production and third-party storage; and of anticipated GHG emission reductions from end-users; and overall GHG benefits associated with Angeles Link. This feasibility study is based on information currently available, and the analysis and corresponding conclusions are expected to evolve over time.

This GHG Study evaluates direct GHG emissions4 associated with hydrogen combustion associated with new infrastructure (i.e., third-party production, third-party storage, and

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[1] In the California Public Utilities Commission (CPUC)'s Angeles Link Phase 1 Decision 22-12-055 (Phase 1 Decision), clean renewable hydrogen refers to hydrogen that does not exceed 4 kilograms of carbon dioxide equivalent (CO2e) produced on a lifecycle basis per kilogram of hydrogen produced and does not use fossil fuels in the hydrogen production process.

[2] California Public Utilities Commission (CPUC), 2022, Adopted Decision 22-12-055 - Decision Approving the Angeles Link Memorandum Account to Record Phase One Costs, December 15, https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M500/K167/500167327.PDF

[3] Fossil fuel is defined as a mixture of hydrocarbons including coal, petroleum, or natural gas, occurring in and extracted from underground deposits.

[4] In this Study, direct GHG emissions refer to GHG emissions from combustion, and indirect GHG emissions refer to GHG associated with non-renewable grid electricity or the estimated effect of potential hydrogen leakage on greenhouse gases in the atmosphere.

transmission of hydrogen),[5] as well as GHG emissions reductions associated with displaced fossil fuels by end users in the mobility, power generation, and hard-to-electrify industrial sectors.[6] Indirect GHGs from electricity are zero since it was assumed that only renewable electricity could be used to produce hydrogen that complies with CPUC's definition of clean renewable hydrogen. Should the need arise for the use of non-renewable grid electricity to produce hydrogen, the associated GHG emissions associated with production would include non-zero indirect GHGs. The GHG emissions associated with water procurement, water conveyance, and water treatment for production of hydrogen were not included in the scope of this Study.[7] Similarly, GHG emissions associated with transportation of other materials such as biomass to the production site or biomass feed preparation are beyond the scope of this feasibility study.

SoCalGas will not be producing clean renewable hydrogen as part of Angeles Link, and it is anticipated that third-party producers would complete thorough environmental review of their projects when proposed pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA), as applicable, and that review would evaluate the potential GHG emissions associated with that production.

Projected quantities of displacement of diesel and gasoline by hydrogen fuel cells in the mobility sector; and anticipated replacement of natural gas with hydrogen in the power generation and hard-to-electrify industrial sectors were based on estimated demand values provided by the parallel Demand Study.

The potential climate considerations of hydrogen leakage, the potential for which was evaluated in the parallel Leakage Study Report, for both general hydrogen infrastructure and Angeles Link infrastructure, are also discussed. Specifically, a preliminary high-level estimate of the impacts to predicted overall (end user reductions minus infrastructure emissions) GHG reductions (using GWP 100) was conducted. Additionally, a summary of the range of estimated global warming potentials (GWP) of hydrogen found in the literature is provided for both the 20 and 100 year time horizons, that would be considered

[5] The terms "new infrastructure" and "hydrogen infrastructure" refer to general hydrogen infrastructure comprised of third-party production, third-party storage, and transmission. The term "Angeles Link infrastructure" refers to transmission via pipelines including compression which supports both storage and transmission of hydrogen.

[6] Mobility, power generation, and hard-to-electrify industrial sectors as defined in the parallel Demand Study.

[7] The GHG emissions associated with water conveyance for production of hydrogen were also outside the scope of the parallel Angeles Link Phase 1 Water Resources Evaluation due to the variety of potential water supply sources and unknown final selection of sources third-party producers may pursue to produce clean renewable hydrogen. In response to stakeholder feedback on potential GHG emissions associated with water supply development, the Water Resources Evaluation added a supplemental desktop analysis of potential GHG emissions associated with water supply treatment and conveyance and that analysis is now included as part of that separate study.

for hydrogen as an indirect GHG.[8] Evaluation of methane leakage in the hydrogen industry is outside the scope of this feasibility analysis.

The Demand Study, which was relied upon when estimating initial projected GHG emissions, projected economy wide demand by 2045 in SoCalGas's service territory using three scenarios: conservative demand, moderate demand, and ambitious demand. In comparison to the Demand Study values noted above, the projected throughput of Angeles Link, which is expected to support a portion of that demand, is estimated to range from approximately 0.5 to 1.5 million metric tonnes per year (MMTPY). The low, medium, and high throughput scenarios for the Angeles Link buildout (0.5 MMTPY, 1.0 MMTPY, and 1.5 MMTPY) align with the conservative, moderate, and ambitious demand scenarios (1.9 MMTPY, 3.2 MMTPY, and 5.9 MMTPY)

To estimate potential GHG emissions associated with the Project, including those from third-party production and storage and end users, GHG estimates were calculated using initial estimates from the Demand Study. Then the ratio of anticipated hydrogen throughput values for Angeles Link to the projected values in the Demand Study were calculated for each of the conservative (26.85%), moderate (31.12%), and ambitious (25.36%) scenarios. The ratios were applied to the GHG estimated emissions using the Demand Study Scenarios to estimate potential GHG emission reductions associated with Angeles Link Throughput Scenarios. This analysis is shown in Table ES-1 below.

Table ES-1
Direct GHG Reduction Estimates for Demand Study Scenarios Applied to Projected Angeles Link Throughput Scenarios

Scenario	Total Projected Hydrogen Demand (MMTPY)	Overall GHG Reductions for Demand in 2045 (MMTPY)	Angeles Link Projected Hydrogen Throughput (MMTPY)	Overall GHG Reductions for Angeles Link Throughput in 2045 (MMTPY)
Low	1.9	16.7	0.5	4.5
Medium	3.2	24.9	1	7.8
High	5.9	35.7	1.5	9.0

[8] The estimated effect of potential hydrogen leakage as an indirect GHG is discussed in Section 9 of this document.

Key Findings: Demand Scenarios

The key findings for GHG emission reductions based on the Demand Study Scenarios are as follows and are discussed further herein.

- Projected up to nearly 17 and 36 million metric tons of CO_2e per year removed from SoCalGas geographic service territory by end users by 2045 in conservative and ambitious demand scenarios of the Demand Study, respectively. The reductions are equivalent to the annual GHG emissions of approximately 45 and 96 natural gas fueled power plants, respectively per EPA Calculator.
  - Mobility sector comprises 72.5% and 50.3% of overall GHG reductions based on the conservative and ambitious demand scenarios, respectively. The GHG reductions estimated for the conservative and ambitious demand scenarios in 2045 are equivalent to removing approximately 2.7 million and 4.3 million gasoline passenger vehicles off the roads per year, respectively.
  - Power generation and hard to electrify industrial sectors comprise 41.7% and 8.1% of the overall GHG reductions, respectively, based on the ambitious demand scenario.
  - Power generation and hard to electrify industrial sectors comprise 23.6% and 3.9% of overall GHG reductions, respectively, based on the conservative demand scenario.
  - Infrastructure GHG emissions are projected to be negligible when compared to overall emission reductions, at 0.29% and 0.25% of end-user reductions for conservative and ambitious demand scenarios, respectively.

Key Findings: Angeles Link Throughput Scenarios

The key findings for GHG emission reductions for Angeles Link Throughput Scenarios, which accounts for emissions from not just transmission of hydrogen, but also from third-party production and storage as well as end users, are as follows and are discussed further herein.

- Projected about 4.5 and 9 MMT of CO2e per year removed from SoCalGas's geographic territory by end users by 2045 in Angeles Link Low and High Throughput Scenarios, respectively.
- Mobility sector comprises 72.5% and 50.3% of overall GHG reductions based on the Angeles Link Low and High Throughput value scenarios, respectively. The GHG reductions estimated for the Low and High Throughput Scenarios in 2045 are equivalent to 725,000 and more than 1 million gasoline passenger vehicles driven for one year, respectively.[9]

[9] EPA, 2023a, Greenhouse Gas Equivalencies Calculator, https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator#results

- Power generation and hard to electrify industrial sectors comprise 41.7% and 8.1% of overall GHG emission reductions, respectively, based on the High Throughput Scenario.
- Power generation and hard to electrify industrial sectors comprise 23.6% and 3.9% of overall GHG emission reductions, respectively, based on the Low Throughput Scenario.
- Infrastructure GHG emissions are projected to be negligible when compared to overall emission reductions at 0.29% and 0.25% of end-user reductions for Low and High Throughput Scenarios, respectively.

Additional details related to both the Demand Scenarios and Angeles Link Throughput Scenarios are provided below.

2030 Ambitious Demand Scenario: In 2030, the Ambitious Demand Scenario predicts a reduction of about 6 MMTPY of CO_2e due to hydrogen replacing fossil fuels. This reduction includes the emissions from producing, storing, and transmitting hydrogen. This amount of reduction is comparable to the energy use of about 740,000 homes for one year, according to the EPA's GHG calculator.[10] In terms of specific contributions, Angeles Link is expected to meet about 25% of the projected hydrogen demand identified in the Demand Study. This means that the specific GHG reductions attributed to Angeles Link under the High Throughput Scenario are estimated at about 1.45 million MT CO_2e per year, which is equivalent to the energy use of approximately 189,000 homes for one year.

2045 Ambitious Demand Scenario: In 2045, the scenario estimates an overall reduction in CO_2e emissions of about 36 MMTPY, again due to the displacement of fossil fuels by hydrogen. These reductions are equivalent to the annual electricity usage of over 4.6 million homes, as per the EPA's calculator. Angeles Link is expected to supply the same percentage (about 25%) of the total hydrogen demand in SoCalGas service territory, as projected in the Ambitious Demand Scenario. As a result, the GHG emissions reductions specifically associated with Angeles Link in the High Throughput Scenario for 2045 are estimated at about 9.0 million MT CO_2e per year. This would correspond to the energy use of roughly 1.1 million homes for one year.

Mobility Sector: In the Mobility sector, the estimated CO_2e reductions under the Ambitious Demand Scenario are approximately 4.4 million MT in 2030 and about 18 million MT by 2045. The reductions by 2045 are equivalent to the emissions from around 4.3 million gasoline-powered passenger vehicles driven for a year. The sector accounts for between 50% to 83% of total GHG emissions reductions, varying by scenario and year. The largest contributors are heavy-duty vehicles (55.5% in 2030 and 62.8% in 2045), followed by buses (33.6% in 2030 and 22.0% in 2045), and medium-duty vehicles (7.3% in 2030 and 9.7% in 2045). Reductions from on-road vehicles outweigh those from off-road vehicles, mainly due to the higher displacement of fossil fuels. In the High

[10] EPA, 2023a, GHG Calculator, Ibid.

Throughput Scenario, the reductions for 2030 are about 1.1 million MT CO2e per year, increasing to about 4.6 million MT CO2e by 2045. The 2045 reductions would be equivalent to the emissions from 1 million gasoline-powered vehicles driven for a year.

Power Generation Sector: In the Power Generation sector, it's projected that by 2030, there could be a reduction of 0.16 million MT of CO2e under the Ambitious Demand Scenario, and by 2045, this could increase to about 15 million MT CO2e. Over 78% of these reductions are expected from the peaker and baseload plant sub-sectors in all years under this scenario with the remaining reductions attributable to the cogeneration sub-sector. By 2045, these reductions are equivalent to the yearly electricity consumption of approximately 1.9 million homes, according to the EPA's calculator. Under the High Throughput Scenario, the reductions are estimated at about 41,000 MT CO2e per year for 2030 and about 3.8 million MT CO2e per year by 2045. The reductions for 2045 under this scenario are comparable to the energy use of around 480,000 homes for one year.

Hard to Electrify Industrial Sectors: In the industrial sectors that are difficult to electrify, the estimated CO2e reductions under the Ambitious Demand Scenario are around 1.1 million MT in 2030 and could rise to about 2.9 million MT by 2045. The 2045 reductions would be equal to the annual electricity usage of about 365,000 homes. In this scenario, refineries are the largest contributors, accounting for 65.5% of reductions in 2030, followed by the Food and Beverage sector (13.4%), Stone, Glass, and Cement (12.1%), and Metals (5.3%). Please note that refineries are only considered in the Ambitious Demand Scenario and refineries comprise about one-quarter of the Demand in this scenario. These percentages remain consistent from 2030 to 2045. In the High Throughput Scenario, the reductions are estimated at about 290,000 MT CO2e per year for 2030 and about 730,000 MT CO2e per year by 2045. The 2045 reductions equate to the energy use of around 96,000 homes for one year.

Hydrogen Infrastructure Emissions: Emissions associated with new hydrogen infrastructure are evaluated. The results of the conservative estimate prepared represent a small fraction of the emissions reductions achieved by end-users adopting hydrogen in the study region.

Specifically, in the Ambitious Demand Scenario:

- By 2030, emissions from the new hydrogen infrastructure are estimated at about 16,600 MT of CO2e per year. This accounts for 0.29% of total CO2e reductions expected from end-users based on hydrogen usage projections.
- By 2045, these emissions increase to about 87,900 MT per year of CO2e, which constitutes 0.25% of the total CO2e reductions from end-users. This accounts for 0.25% of total CO2e reductions expected from end-users based on hydrogen usage projections.

For Angeles Link, under the High Throughput Scenario:

- In 2030, the estimated emissions attributed to the new infrastructure are estimated to be around 4,200 MT of CO2e per year. This accounts for 0.29% of total CO2e reductions expected from end-users based on hydrogen usage projections.
- By 2045, this figure is projected to rise to 22,300 MT of CO2e per year. This accounts for 0.25% of total CO2e reductions expected from end-users based on hydrogen usage projections.

Stakeholder Input

The input and feedback from stakeholders including the Planning Advisory Group (PAG) and Community Based Organization Stakeholder Group (CBOSG) has been helpful to the development of this Final GHG Study Report. For example, in response to stakeholder comments, the Study includes an estimate of the impact to estimated GHG reductions of a preliminary high-level volumetric estimate of the potential for leakage from hydrogen infrastructure from the Leakage Study Report, as well as presenting a summary of the estimated Global Warming Potential (GWP) 100 and GWP 20 for hydrogen available in the literature. In addition, the study includes a review of relevant literature provided by stakeholders, as applicable. The feedback that has been received related to this Study is provided in Section 11.

SoCalGas

GHG AND OTHER AIR EMISSIONS
DRAFT STUDY - ANGELES LINK

About the Research

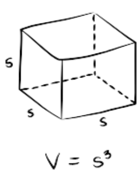
Understanding the Draft Study

Study Purpose

- Estimate GHG combustion emissions associated with Angeles Link infrastructure including third party production and third party storage.
- Assess projected GHG combustion emission reductions from displacing fossil fuels with hydrogen in various end user sectors.

Scope

- Focus on direct combustion GHG emissions from hydrogen infrastructure and reductions from fossil fuel displacement.
- Includes examination of indirect climate impacts for potential hydrogen leakage associated with infrastructure based on a summary of leakage rates provided in the Leakage Study.



Key Assumptions

- Use of renewable electricity for hydrogen production to ensure zero GHG emissions from the energy supply side.
- Anticipation of technological efficiencies and market adoption rates to project climate benefits.

Limitations

- Does not account for water conveyance and biomass transportation impacts and other potential contributors to full lifecycle GHG assessments.
- Acknowledges the draft nature of the study, indicating ongoing refinement of data and conclusions.

Informed by Research

- Literature and Studies: Equity Principles for Hydrogen, AC Transit, 2022. Bertagni et al., 2022, CARB 2022; Ocko, I. and S. Hamburg, 2023; Paulot, F., et al., 2021; Sand, M., et al., 2023, Sun, Tianyi, et al., 2024
- Notable references include detailed discussions on the impact of hydrogen leakage on overall GHG reductions and climate impacts.

Understanding the Impact of Angeles Link

Identifying End-Users Served by Angeles Link

Mobility Sector

- Heavy-Duty Trucks, Medium-Duty Vehicles, Buses, Agriculture, Construction & Mining Equipment, Cargo Handling Equipment, Ground Support Equipment, Commercial Harbor Craft.

Power Generation Sector

- Turbines and Co-generation.

Hard-to-Electrify Industries

- Chemical Manufacturing, Metal Refining and Treatment, Stone/Glass/Cement, Food & Beverage, Paper & Pulp, Aerospace, Refineries.

Overview of Direct GHG Reduction Estimates for Demand Study Scenarios Applied to Projected Angeles Link Throughput Scenarios

- **Demand Scenarios:** Specifies the level of market adoption (Low, Moderate, High) for hydrogen by end users.
- **Total Projected Hydrogen Demand:** This is how much hydrogen is expected to be used in each scenario.
- **Overall GHG Reductions based on Demand Scenarios in 2045:** This shows the estimated GHG reductions associated with Demand Scenarios.
- **Angeles Link Projected Hydrogen:** It reflects the specific contribution of Angeles Link within the larger market context.
- **Overall GHG Reductions based on Throughput Scenarios in 2045:** This represents the total anticipated GHG reduction in 2045, reflecting Angeles Link contribution.

DEMAND SCENARIO	TOTAL PROJECTED HYDROGEN DEMAND (MMT/YR)	OVERALL GHG REDUCTIONS BASED ON DEMAND SCENARIOS IN 2045	ANGELES LINK PROJECTED HYDROGEN (MMT/YR)	OVERALL GHG REDUCTIONS FOR ANGELES LINK THROUGHPUT IN 2045
CONSERVATIVE	1.9 MMT/yr Least amount of hydrogen expected to be used.	16.7 MMT/yr Amount of GHG reduced if less hydrogen is used.	0.5 MMT/yr Amount of hydrogen Angeles Link would transport in this scenario.	4.5 MMT/yr GHG reduction directly from Angeles Link's operations.
MODERATE	3.2 MMT/yr A moderate amount of hydrogen expected to be used.	24.9 MMT/yr Amount of GHG reduced with moderate hydrogen use.	1.0 MMT/yr Hydrogen amount transported by Angeles Link in this scenario.	7.8 MMT/yr GHG reduction from Angeles Link, reflecting its impact.
AMBITIOUS	5.9 MMT/yr The highest amount of hydrogen expected to be used.	35.7 MMT/yr Maximum GHG reduction with high hydrogen use.	1.5 MMT/yr Most hydrogen transported by Angeles Link under this scenario.	9.0 MMT/yr Largest GHG reduction by Angeles Link, showing significant impact.

Visualizing the Impact: GHG Reductions Through Angeles Link

Understanding the Impact of Angeles Link on GHG Reduction over time

The visualization underscores a dramatic scale-up in the impact of GHG reductions enabled by Angeles Link, with energy savings equivalent to homes increasing nearly sixfold from 2030 to 2045, highlighting significant long-term environmental benefits.

1.4MMT

the equivalent of 180,000 homes

In 2030, Angeles Link would have reduced emissions by 1.4, the equivalent of 180,000 homes

9MMT

the equivalent of 1.1 million homes

Each icon represents the energy usage of 20,000 homes.

GHG Reduction by 2045 for Angeles Link Throughput

4.5 MMT of CO2 Equivalent:

83M

tree seedlings grown for 10 years.

7.8 MMT of CO2 Equivalent:

144M

tree seedlings grown for 10 years.

9 MMT of CO2 Equivalent:

166M

tree seedlings grown for 10 years.

- **Low Throughput:** Angeles Link transports **0.5 MMT/year** of clean hydrogen, helping reduce GHGs by **4.5 MMT/year**.
- **Moderate Throughput:** Angeles Link transports **1.0 MMT/year** of clean hydrogen, reducing GHGs by **7.8 MMT/ year**.
- **High Throughput:** Angeles Link transports **1.5 MMT/year** of clean hydrogen, reducing GHGs by **9.0 MMT/ year**.

Insights on Sector-Specific Impact based on Demand Scenarios

GHG Emission Reductions Across Sectors on Car Emissions Equivalent, by 2045

**Each icon represents 250,000 cars removed*

The Mobility Sector's reduction impact is roughly six times that of the Industrial Sectors and slightly higher than that of Power Generation, underscoring the critical role of transportation advancements in achieving broader emission reduction targets

18MMT/year

The Mobility Sector GHG reduction is equivalent to removing about **4.2 million cars.**

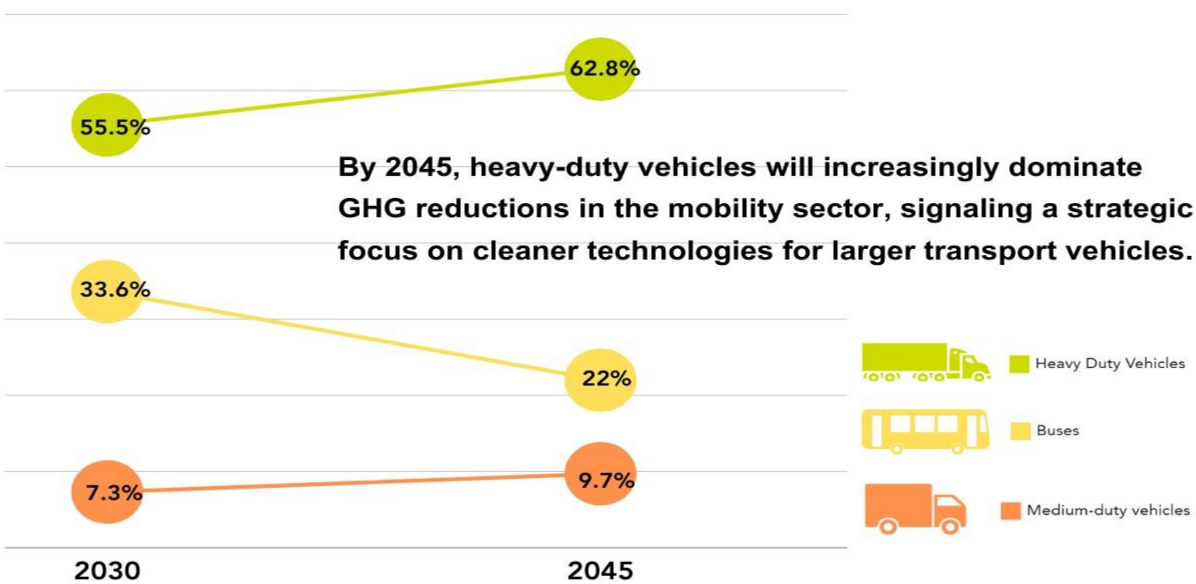
15MMT/year

The Power Generation Sector GHG reduction is equivalent to removing about **3.33 million cars.**

2.9MMT/year

Industrial Sectors GHG reduction are equivalent to removing about **644,000 cars.**

Trends in Mobility Subsector Contributions to GHG Reductions: 2030 vs. 2045

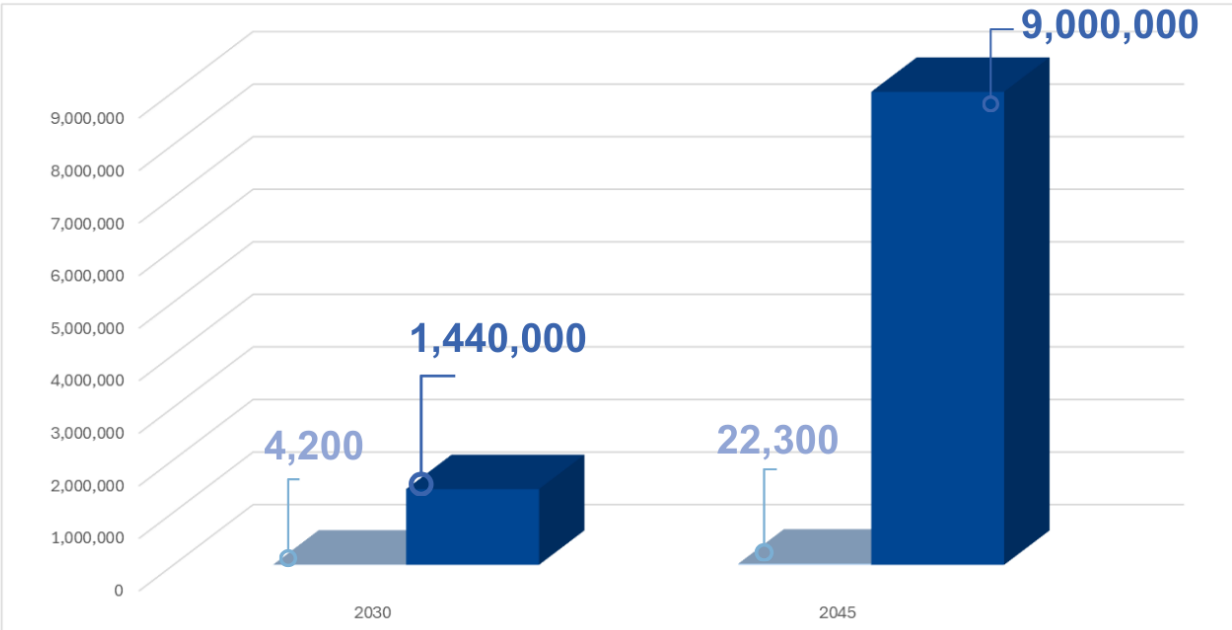


By 2045, heavy-duty vehicles will increasingly dominate GHG reductions in the mobility sector, signaling a strategic focus on cleaner technologies for larger transport vehicles.

Evaluating the Environmental Impact of the Angeles Link

New Hydrogen Infrastructure Emissions vs. End-Users Reductions: Angeles Link's Impact from 2030 to 2045

Estimated GHG Combustion Infrastructure Emissions vs. Expected GHG Combustion Reductions from End Users Served by Angeles Link (2030 & 2045)



Projected GHG Combustion Infrastructure Emissions (MT CO2e/yr)

Expected GHG Combustion End User Reductions (MT CO2e/yr)

Note: *The terms "new infrastructure" and "hydrogen infrastructure" refer to general hydrogen infrastructure comprised of third-party production, third-party storage, and transmission.*

Understanding the Impact of Hydrogen Leakage on Overall GHG reductions

3% Preliminary High-level Estimate of the Impact of Potential Leakage on Overall GHG reductions estimates is less than 3% for General Hydrogen Infrastructure.

1% Preliminary High-level Estimate of the Impact of Potential Leakage on Overall GHG reductions estimates is less than 1% for Projected Angeles Link Infrastructure.

2 STUDY APPROACH

The goals of this Study are to estimate GHG combustion emissions associated with the anticipated production, storage, and transmission of hydrogen and estimate GHG combustion emission reductions from end users of hydrogen in the mobility, power generation, and hard to electrify industrial sectors.[11] The parallel Demand Study provided initial details and scenarios that were used to complete these GHG emission estimates. Additional evaluation of GHG emissions for the estimated ranges of Angeles Link throughput of 0.5 to 1.5 MMT per year of hydrogen was also conducted.

The geographic region of this study includes highly populated areas and encompasses a wide range of industrial end-users with the potential to convert to hydrogen as a source of fuel. Among these potential end-users are the San Pedro Ports Complex comprised of the Port of Los Angeles and the Port of Long Beach, the most highly trafficked ports in the United States[12] and Los Angeles International Airport, one of the top five busiest airports in the world.[13] The study covers the time period from 2030 to 2045 consistent with the assumptions in the Demand Study.

Where applicable, the Study relies on specific technical information from regulatory agencies, transportation agencies, and equipment manufacturers. Research conducted by entities such as academic institutions was evaluated to determine the best available methods for quantifying emissions of GHG from the combustion of hydrogen. When specific information was not available, estimates were made based on availability of related data, or assumptions were developed.

For this Study, GHG emissions from combustion of fossil fuels (diesel, gasoline, and natural gas) are comprised of carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O); and GHG emissions from combustion of hydrogen include no carbon emissions and only trace amounts of N_2O.[14] Hydrogen considerations as an indirect GHG have be discussed in a number of research studies and although a single value or range has not been formally adopted by reporting agencies like the California Air Resources Board (CARB), the Environmental Protection Agency (EPA), or the IPCC, it's an important study consideration. The impact of hydrogen to climate change as discussed in the scientific

[11] Estimation of GHG emissions associated with project construction will be considered during the California Environmental Quality Act (CEQA) / National Environmental Policy Act (NEPA) process of the project.

[12] Port of Los Angeles, Statistics website, accessed 2024, https://www.portoflosangeles.org/business/statistics

[13] KTLA 5 News website, LAX soars to 5th busiest airport in world, April 11, 2022, https://ktla.com/news/local-news/lax-soars-to-5th-busiest-airport-in-world/

[14] Some studies indicate that there is a possibility for N_2O to form directly from the interaction of N_2 and O_2 (primary components of air) during combustion of any fuel.

literature including estimates of effective GWPs for hydrogen are presented in this study report.

Technical Research

The Study collected, reviewed, and analyzed technical research studies and information related to GHG emissions associated with the combustion of hydrogen. This analysis included, but was not limited to:

- Available literature and studies from research-based academic institutions such as the University of California Irvine (UCI) Combustion Laboratory and the Georgia Institute of Technology and private organizations such as the Electric Power Research Institute (EPRI); and technical data or research identified by stakeholders (CBOSG and PAG members) including Environmental Defense Fund (EDF).
- Existing, proposed, and potential future regulatory requirements from federal agencies including the Environmental Protection Agency (EPA), the Department of Energy (DOE), state agencies such as the California Air Resources Board (CARB) and the California Energy Commission (CEC), and local agencies including the nine local air districts located within the geographic scope of this study such as South Coast AQMD and San Joaquin Valley Air Pollution Control District (APCD);
- Technical literature and data releases from government agencies and laboratories including the DOE and the National Renewable Energy Lab (NREL); and
- Potential GHG minimization opportunities from technological advancements.

3 TECHNICAL APPROACH

The following assessment process (Figure 1) was used for the technical approach of this Study. The approach was based on review of technical research studies, research of anticipated technological advancements, stakeholder input and review of the expected evolution of regulatory frameworks.

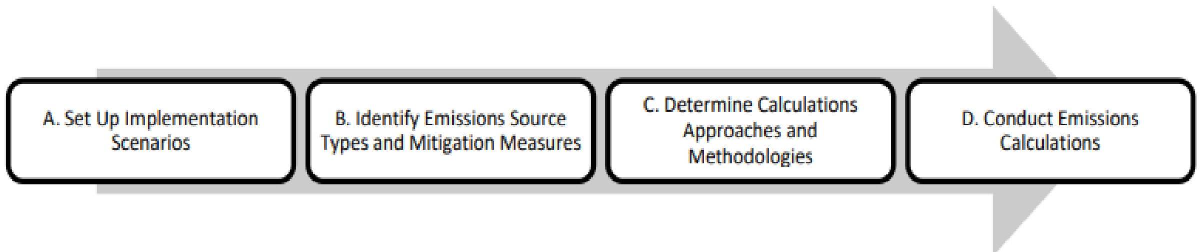


Figure 1. GHG Emissions Assessment Process for GHG Emissions Associated with Angeles Link

3.1 SET UP IMPLEMENTATION SCENARIOS

To evaluate potential GHG emissions and emissions changes associated with Angeles Link, including third-party production and storage, as well as end users, the timeframe from 2030 to 2045 was used. Consistent with the findings of the Demand Study, end use sectors are anticipated to achieve the ability to accommodate 100% hydrogen fuel use at different times due to availability of technology and feasibility of transitioning existing equipment and building new infrastructure. The use of clean renewable hydrogen as fuel for each end-use sector was evaluated beginning with 2030 based on data from the Demand Study. GHG emissions were calculated using the approaches described in the next steps for both the three hydrogen Demand Study scenarios – conservative (1.9 MMTPY), moderate (3.2 MMTPY), and ambitious (5.9 MMTPY), as well as the three hydrogen Angeles Link throughput scenarios – low (0.5 MMTPY), medium (1.0 MMTPY), and high (1.5 MMTPY).

3.2 IDENTIFY EMISSIONS SOURCE TYPES

The Study evaluated GHG combustion emissions by developing emission calculation approaches and methodologies for the following:

- Infrastructure (Third-Party Production, Third-Party Storage, and Transmission)
- End Users (Mobility, Power Generation, and Hard to Electrify Industrial)

Evaluation of GHG emission minimization opportunities was focused on equipment efficiency to minimize fuel use and thereby minimize GHG, as well as equipment design that minimizes formation of N_2O.

The study acknowledges that certain technical literature identified the potential for hydrogen leakage in the production, storage, and transmission of hydrogen. This potential, as well as opportunities to minimize and mitigate the potential for leakage, are discussed in the parallel Final Leakage Study Report. Evaluation of methane leakage in the hydrogen industry is outside the scope of this feasibility analysis.

3.2.1 Hydrogen Production (Third-Party)

Three potential clean renewable hydrogen production methods were evaluated as shown below. Each are projected to produce clean renewable hydrogen consistent with the clean renewable hydrogen definition in the CPUC's Phase 1 Decision. Further details regarding production methodologies are available in the parallel Phase 1 Production Study. Appendix A provides details regarding the development of GHG emission factors related to production. Appendix B includes a summary of the anticipated carbon intensities of production options as discussed in the literature.

1) Electrolyzers[15] powered by renewable electricity split water molecules into oxygen (O_2) and hydrogen (H_2). This process does not use combustion so there is no potential for GHG emissions from electrolyzers. It was assumed that only renewable electricity would be used and the indirect GHG emissions would be zero.
2) Biomass gasification[16] is a process that involves heat, steam, and oxygen to convert biomass to hydrogen without combustion.. It was assumed that only renewable electricity would be used and the process would be carbon neutral and therefore GHG emissions would be zero.
3) Renewable natural gas (RNG) fueled steam methane reformers (SMR). Steam methane reforming is a process in which biogas (RNG) reacts with steam in the presence of a catalyst to produce hydrogen and carbon dioxide. It was assumed that hydrogen would be used as the fuel for any combustion units, such as the heater. This method has direct GHG emissions and those potential emissions were evaluated. It was assumed that only renewable electricity would be used and the indirect GHG emissions would be zero.

The GHG estimates in this Final GHG Study Report related to anticipated third-party production options are based on combustion of 100% clean renewable hydrogen and use of renewable electricity. GHG emissions associated with water procurement, water conveyance, water treatment, and transport of feedstock such as biomass was out of scope for this Study. Estimated carbon intensity values for cradle-to-gate summarized from the literature are provided in Appendix B. Third-party producers will select the source and type of biomass that may be used during biomass gasification which will impact the carbon intensity of the biomass. The biomass used may affect the eligibility of whether

[15] DOE, 2024a, Hydrogen Production: Electrolysis, https://www.energy.gov/eere/fuelcells/hydrogen-production-electrolysis
[16] DOE, 2024b, Hydrogen Production: Biomass Gasification, https://www.energy.gov/eere/fuelcells/hydrogen-production-biomass-gasification

the hydrogen produced may be transported via Angeles Link pipeline depending on CPUC directives. Please refer to the Water Study and Production Study for additional information regarding the third-party production methodologies.

3.2.2 Hydrogen Storage (Third-Party) and Transmission

For the purpose of this Study, hydrogen storage may occur aboveground or underground, and will be delivered to end users via pipelines. Storage and transmission of hydrogen will require the use of compressors. Reciprocating or centrifugal compressors would be fueled by clean renewable hydrogen and would not produce CO_2. However, trace amounts of N_2O could form from the nitrogen present in the combustion air at specific temperatures. It was assumed that only renewable electricity would be used and the indirect GHG emissions would be zero. Electric driven compressors would be powered by renewable electricity and both direct and indirect GHG emissions would be zero.

3.2.3 Hydrogen Industrial End Users

Potential GHG emissions reductions from end users in three key sectors were evaluated: Mobility, Power Generation, and Hard to Electrify Industrial sectors. Information obtained from the parallel Demand Study informed the analysis of end uses in each of these three sectors, as well as their respective subsectors and are noted below:

- **Mobility:** sub-sectors include heavy-duty trucks, medium-duty vehicles, buses, agriculture, construction & mining, cargo handling equipment, ground support equipment, and commercial harbor craft.
- **Power Generation:** turbines are the primary source for potential GHG emissions in power generation.
- **Hard to electrify industrial:** subsectors include energy intensive industries such as refining, food and beverage manufacturing, primary and fabricated metals, stone, glass, and cement, paper, chemical manufacturing, and aerospace and defense.

Equipment types with the potential for GHG emissions across the power generation and industrial sectors include hot water boilers, steam generating units, process heaters, furnaces/kilns, internal combustion engines, turbines, and miscellaneous combustion equipment.

3.2.4 Opportunities to Minimize GHG Emissions

Opportunities to minimize GHG emissions are related to production methodologies and equipment used to combust hydrogen such as reciprocating or centrifugal compressors. Advanced production technologies, including electrolysis, biomass gasification and renewable natural gas-fueled steam methane reformers, provide opportunities to minimize GHG compared to traditional hydrogen production methods. Optimization of hydrogen storage and transmission includes implementing high-efficiency compressors powered by renewable electricity or hydrogen and ensuring robust infrastructure design to minimize hydrogen leakage. Various opportunities exist to minimize N_2O emissions, particularly during the design phase of combustion equipment.

3.3 FORMATION OF GHG

Greenhouse gases are a natural part of the Earth's atmosphere that keeps the earth's global mean temperature comfortable for and inhabitable by humans. Without greenhouse gases, the Earth would be much colder. While some atmospheric greenhouse gases are critical for the existence of life as we know it, an excess of greenhouse gases in the atmosphere has the potential to increase the greenhouse effect to a point where the increase in global mean temperature may disrupt global ocean currents, global wind patterns, expected climatic variations, and ultimately, the way life functions on Earth. It is important to understand which gases act as greenhouse gases in the atmosphere and what anthropogenic causes contribute to their release.

Human activities are responsible for increases in greenhouse gases in the atmosphere over the last 150 years. Combustion of fossil fuels occurs when the fuel is burned with oxygen, which can lead to the formation of CO_2 and water vapor (H_2O). CO_2 is one of the most prevalent anthropogenic greenhouse gases. Roughly half of Earth's greenhouse effect is attributable to water vapor in the atmosphere.[17] Increasing global mean temperatures increase the heat flux off the ocean and other bodies of water, which increases evaporation. As temperatures increase, the air in the atmosphere can hold more water due to decreased condensation and precipitation. Water vapor is a direct greenhouse gas, which absorbs the radiation from the Earth and reflects it back. Water vapor exacerbates the warming from other greenhouse gases. The primary difference between water vapor and the other GHGs is that it is condensable. The water cycle works to keep molecules of water in the atmosphere for only a small length of time, roughly nine days on average.[18] This is in comparison to carbon dioxide which can stay in the atmosphere for hundreds of years.

The concept of "global warming potential" (GWP) measures a greenhouse gas's (GHG's) ability to trap heat in the atmosphere compared to carbon dioxide (CO_2). Defined by the US Environmental Protection Agency (EPA)[19], GWP quantifies the heat a greenhouse gas can absorb over a specified period, using the impact of one ton of CO_2 as the reference. This metric is developed and regularly updated by experts at organizations like the Intergovernmental Panel on Climate Change (IPCC) based on comprehensive

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[17] Buis, A., 2022, Steamy Relationships: How Atmospheric Water Vapor Amplifies Earth's Greenhouse Effect, NASA Climate webpage article, February 8, https://climate.nasa.gov/explore/ask-nasa-climate/3143/steamy-relationships-how-atmospheric-water-vapor-amplifies-earths-greenhouse-effect/
[18] Buis, A. 2022, Steamy Relationships, Ibid
[19] EPA, 2024a, Greenhouse Gas Emissions: Understanding Global Warming Potentials, https://www.epa.gov/ghgemissions/understanding-global-warming-potentials

reviews of scientific studies. The updates incorporate the latest data, and the GWP values are assessed over different time spans — 20, 100, or 500 years[20]. The IPCC's Fifth Assessment Report (AR5)[21] recognized the 100-year GWP as a standard metric from the United Nations Framework Convention on Climate Change (UNFCCC), which was initially applied in the 1997 Kyoto Protocol. AR5 also noted that GWPs for gases that stay in the atmosphere for shorter periods have greater uncertainties compared to those that remain for several decades or centuries. The Sixth Assessment Report (AR6) was selected as the source for GWP values for carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O), as these were the most recently published GWPs.[22] The AR6 GWP values are used in this study since they are the most recent values. Reporting of GHG to CARB and EPA uses the AR4 GWP 100 value that is lower for methane (25 rather than 29.8). The Study anticipates that GWP for hydrogen will be evaluated for reporting purposes in the future and undergo an evolution in values similar to methane.

3.4 GHG EMISSION FACTORS

The Study evaluated direct GHG emissions from combustion of fossil fuels, hydrogen, and natural gas/hydrogen fuel blends.

3.4.1 Combustion of Displaced Fossil Fuels

Direct GHG emissions comprised of CO_2, CH_4, and N_2O were evaluated for combustion of displaced fossil fuels: natural gas, diesel, and gasoline. EPA Title 40 Code of Federal Regulations (CFR) Part 98 "Mandatory Greenhouse Gas Reporting," was selected as the source for fuel based GHG emissions factors for CO_2, CH_4, and N_2O in units of kilograms (kg) per million British Thermal Units (MMBtu). The GHG emissions factors for CO_2, CH_4, and N_2O associated with diesel, gasoline, and natural gas per EPA 40 CFR Part 98, as well as the GWP 20 and GWP 100 values from IPCC AR6 Table 7.15 of "Climate Change 2021 The Physical Science Basis" Working Group 1 Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change,[23] are shown in Table 1 below.[24]

[20] IPCC, 2014 AR5 Synthesis Report: Climate Change 2014, https://www.ipcc.ch/report/ar5/syr/

[21] IPCC, 2014, Ibid.

[22] IPCC, 2021, Climate Change 2021 The Physical Science Basis, Working Group I Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change, https://ipcc.ch/report/ar6/wg1

[23] IPCC, 2021, Ibid.

[24] The AR6 GWP values are used in this study since they are the most recent values. Reporting of GHG to CARB and EPA currently uses the AR4 GWP 100 value that is lower for methane (25 rather than 27.0 – 29.8).

Table 1 Summary of Fossil Fuel GHG Combustion Emission Factors			
Pollutant	**CO_2 E.F. (kg/MMBtu)**	**CH_4 E.F. (kg/MMBtu)**	**N_2O E.F. (kg/MMBtu)**
Diesel	73.96	3.0 x 10-3	6.0 x 10-4
Gasoline	70.22	3.0 x 10-3	6.0 x 10-4
Natural Gas	53.06	1.0 x 10-3	1.0 x 10-4
GWP 100	1	29.8	273
GWP 20	1	82.5	273

3.4.2 Combustion of Hydrogen

This Study also explored whether greenhouse gases are produced when hydrogen is combusted. Pure hydrogen fuel does not contain carbon and is therefore considered an option for decarbonizing certain emissions sources and sectors where other low-carbon options might not be technically or economically feasible.[25] Nevertheless, minute amounts of CO_2 might still be detected when measuring emissions, but this CO_2 originates from the combustion air itself, which contains about 0.04% CO_2 by volume.[26] This CO_2 is not produced by the combustion process; instead, it remains unchanged and can exit through the exhaust stack. When combusting hydrogen small amounts of N_2O could potentially form from the interaction of N_2 and O_2 during combustion due to nitrogen and oxygen present in the combustion air. The possibility of forming N_2O is considered minimal and is most likely to occur at low combustion temperatures.[27] When hydrogen is combusted in combination with natural gas, the emissions include CO_2, methane (CH_4) which is unburned fuel from the natural gas component, and N_2O.

CO_2 emissions decrease as the percent of hydrogen in the fuel (on a volume basis) is increased, but they do not decrease linearly. As outlined in a paper published by the EPA titled, "*Hydrogen in Combustion Turbine Electric Generating Units Technical Support Document*," the difference in volume energy densities between natural gas and hydrogen

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[25] International Energy Agency (IEA), 2019, The Future of Hydrogen - Seizing today's opportunities, report prepared for the G20 by the IEA, June, https://iea.blob.core.windows.net/assets/9e3a3493-b9a6-4b7d-b499-7ca48e357561/The_Future_of_Hydrogen.pdf
[26] West, J., 2019, Wait the Atmosphere is only 0.04% Carbon Dioxide. How Does it Affect Earth's Climate?, SciTechDaily, https://scitechdaily.com/wait-the-atmosphere-is-only-0-04-carbon-dioxide-how-does-it-affect-earths-climate/
[27] Colorado, A., V. McDonell and S. Samuelsen, 2017, Direct Emissions of Nitrous Oxide from Combustion of Gaseous Fuels, International Journal of Hydrogen Energy 42(1): 711-719, https://doi.org/10.1016/j.ijhydene.2016.09.202

causes a smaller CO_2 emissions reduction than the percentage of hydrogen in the fuel mixture by volume. However, the study also assessed the extent of N_2O emissions that can be expected from the combustion of hydrogen.

N_2O is a greenhouse gas that can be formed during combustion that has a 100-year GWP of 273 according to the EPA. N_2O accounts for a very small percentage of GHG combustion emissions from natural gas, gasoline, and diesel fuels, and very small percentage of the resultant CO_2e emissions. N_2O emissions can potentially form from nitrogen in a fuel or nitrogen in combustion air. Given the potential for N_2O formation from combustion air, the potential for N_2O emissions to occur as a result of hydrogen combustion was evaluated as part of this study. Based on research, an extremely conservative emission factor for N_2O of 2 ppmvd was used for this study. Details regarding development of the N_2O emission factor used in this Study report are provided in Appendix A.

3.5 CALCULATION METHODOLOGY

3.5.1 Infrastructure

GHG combustion emissions associated with hydrogen infrastructure, including third-party production and storage were estimated. For hydrogen production, GHG combustion emissions associated with production (i.e., steam-methane reforming) and compression for storage and transmission fueled by hydrogen were estimated. Preliminary assumptions were made to develop GHG combustion emissions estimates. The formula used to calculate these emissions is:

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

The first equation (equation 1) multiplies the quantity of clean renewable hydrogen by the N_2O emission factor assumed in this Study for hydrogen. The emissions for N_2O are then multiplied by the GWP as shown in Table 1 to determine GHG emissions in units of CO2e.

This approach applies emission factors for direct GHG components from the combustion process, scaled according to the specific equipment and operations involved in hydrogen infrastructure.

3.5.2 End Users

Estimating the potential for hydrogen leakage associated with end users of Angeles Link was not feasible given the limited amount of information available. However, some limited information found in the literature has been added to Section 4.1.1 of the Leakage Study. This information was related to end users that may or may not be applicable to Angeles Link.

For end users, based on the emission source type identified, GHG emissions were estimated for combustion of the displaced fossil fuel (diesel, gasoline, natural gas) and for hydrogen combustion, as applicable. For example, specific end user equipment and facility data was not available. Calculations to estimate emissions were prepared using the following two equations:

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

The first equation (equation 1) multiplies the quantity of fuel by the GHG emission factor specific to the fuel for each GHG pollutant. These pollutants are CO_2, CH_4, and N_2O for combustion of fossil fuels and N_2O for combustion of hydrogen. Each GHG has a specific fuel dependent emission factor and a unique GWP as shown in Table 1. The emissions for each of CO_2, CH_4, and N_2O are multiplied by their respective GWP and then summed to obtain the total GHG emissions in units of CO2e.

The second equation (equation 2) calculates the GHG emission reductions in CO2e by subtracting the GHG emissions for hydrogen (either for N_2O from combustion of hydrogen or zero for hydrogen fuel cells) from the GHG emissions for combustion of displaced fossil fuels. The GHG emissions for combustion of hydrogen and for combustion of fossil fuels are both derived from equation 1.

GHG emissions were calculated at the unit level and scaled based on activity data quantified using information from the Demand Study. Calculations were prepared for the conservative, moderate, and ambitious scenarios in the Demand Study for each year from 2030 to 2045. The Study evaluated the potential for GHG emissions based on the type of equipment and specific source categories from the Demand Study. This approach ensures that both the potential for GHG emissions and opportunities for reductions are comprehensively evaluated.

The GHG emissions factors for CO_2, CH_4, and N_2O associated with diesel, gasoline, and natural gas per EPA 40 CFR Part 98, as well as the GWP 20 and GWP 100 values from IPCC AR6, are shown in Table 1. For combustion of clean renewable hydrogen with GHG emissions comprised entirely of N_2O, since the GWP 20 and GWP 100 for N_2O are both 273, the expected impacts in both short term and long term should be similar. Once each calculation estimates for GHG combustion emissions were prepared for new infrastructure and end use sectors, these results were summed to develop an overall estimate using equation 3:

Overall GHG Reductions = End User GHG Reductions - Infrastructure GHG Increases (equation 3)

This structured approach ensures a rigorous and detailed analysis, accommodating the specificities of the GHG emissions associated with different stages of the hydrogen value chain.

3.5.2.1 Mobility Sector

Most on-road and off-road vehicles in the Mobility sector currently use various liquid and gaseous carbon-based fuels driving internal combustion engines. The CARB Emission Factor (EMFAC) model[28] was used to provide activity data and/or emissions factors for on-road and off-road mobile sources. The EMFAC model provides activity data such as vehicle miles traveled, vehicle category population counts, fuel consumption by vehicle category, and emissions data for most mobile vehicle types evaluated in this Study. The model contains sufficient data to estimate CO_2, CH_4, and N_2O emissions for on-road mobile sources, and CO_2 emissions for off-road mobile sources. Since the EMFAC model does not include CH_4 and N_2O emissions data for off-road mobile vehicles, additional research was completed to establish the most representative CH_4 and N_2O emissions factors for off-road mobile sources. The EPA Emission Factors for Greenhouse Gas Inventories document most recently modified on September 12, 2023, was selected. This Study consolidates these emissions factors from the Annex tables in the EPA (2022) Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2020.[29]

3.5.2.2 Power Generation Sector

The calculation approach for Power Generation to determine the change in emissions after hydrogen adoption consisted of taking the difference in GHG combustion emissions associated with fossil fuels and GHG combustion emissions associated with hydrogen. Stationary source fossil fuel consumption was represented as natural gas for consistency with the Demand Study. The fuel types considered for stationary calculations were pure hydrogen, pure natural gas, and hydrogen-natural gas blends of various percentages.

For the power generation sector, hydrogen usage is expected to begin with hydrogen/natural gas blends and begin to use 100% hydrogen fuel as the technology becomes available. Blended fuels will continue to be used while the in-use units age out. The transition from blended fuels to 100% pure hydrogen fuels was evaluated by the Demand Study in the Power Generation model and was based on technological and economic feasibility and regulatory requirements. These blending assumptions from the Demand Study were utilized within this study.

Mitsubishi, Siemens, and GE are the three largest global turbine manufacturers and have each outlined plans for establishing pure hydrogen firing turbine technology for power

[28] CARB, 2024a, EMFAC, https://ww2.arb.ca.gov/our-work/programs/msei/on-road-emfac

[29] EPA, 2023c, Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2021, EPA 430-R-23-002, April 13, https://www.epa.gov/system/files/documents/2023-04/US-GHG-Inventory-2023-Main-Text.pdf

generation. Siemens and GE have published goals to develop heavy-duty DLE and DLN turbines with the ability to combust pure hydrogen by 2030, and Mitsubishi set a goal to develop DLN turbines with the ability to combust 100% hydrogen fuel by 2025.[30]

While not specifically included in the blending assumptions, hydrogen fuel cell technology has also been proven useful in the Power Generation sector in such applications as primary power, back-up power, peak-shaving, grid stabilization, and tri-generation (power, heat, and hydrogen).[31]

3.5.2.3 Hard to Electrify Industrial Sectors

The calculation approach for Hard to Electrify Sectors to determine the change in emissions after hydrogen adoption consisted of taking the difference in GHG combustion emissions associated with fossil fuels and GHG combustion emissions associated with hydrogen. Stationary source fossil fuel consumption was represented as natural gas for consistency with the Demand Study. The fuel types considered for stationary calculations were pure hydrogen, pure natural gas, and hydrogen-natural gas blends of various percentages.

The Hard to Electrify Industrial sectors evaluated include energy intensive industries that currently uses mostly gaseous and liquid carbon-based fuels in internal and external combustion equipment. Although Angeles Link will deliver 100% hydrogen, usage in these sectors is anticipated to begin with hydrogen/natural gas blends in 2030 by the end users, behind the meter, and eventually transition to use 100% hydrogen fuel by 2050. Once pure hydrogen fuel combustion technology becomes available, it was assumed that blended fuel equipment would be retired or phased out until 100% of hydrogen demand would be utilized by equipment combusting pure hydrogen fuel in 2050. Equipment-level blended hydrogen combustion as a percentage of overall hydrogen consumption is depicted in Table 2B below.

Babcock and Wilcox offers a commercially available steam boiler that can operate on 100% hydrogen fuel, called BrightGen. This unit has the ability to switch between hydrogen and natural gas combustion as needed.[32] In 2020, AMF Bakery Systems released the Multibake VITA Tunnel Oven by AMF Den Boer which is fueled by pure

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[30] EPA, 2023b, Hydrogen in Combustion Turbine Electric Generating Units, Technical Support Document, Docket ID No.EPA-HQ-OAR-2023-0072, May 23, https://www.epa.gov/system/files/documents/2023-05/TSD%20-%20Hydrogen%20in%20Combustion%20Turbine%20EGUs.pdf

[31] Air Products, 2024, Hydrogen Fueling for Power Generation, online article, n.d., https://www.airproducts.com/applications/power-generation

[32] Babcock and Wilcox, 2023, BrightGen™ Hydrogen Combustion Technology: Utilizing non-carbon-based fuels for steam production, Industry Brochure, https://www.babcock.com/assets/PDF-Downloads/PS-599-BrightGen-Hydrogen-Combustion-Brochure.pdf

hydrogen. Hydrogen fueled ovens have the potential to help decarbonize the Food & Beverage Hard-to-Electrify Industrial sub-sector.[33]

The DOE is continuing to invest funding into the research and development of pure hydrogen capable combustion technologies to help decarbonize the Hard-to-Electrify Industrial sector. In January 2024, DOE announced $10.5M of funding into PACCAR Inc., Cummins Inc., and Powertrain for the development of heavy-duty hydrogen engine technology.[34]

Heavy-duty hydrogen turbine, engine, oven, and boiler technology has the strong potential to help decarbonize the Hard-to-Electrify Industrial sector. While not all of these technologies are commercially available yet, manufacturers have stated goals to produce this equipment within the next decade.

This Study does not dictate if end users will blend hydrogen with natural gas and makes assumptions regarding adoption rates based on currently available information regarding equipment and the anticipated evolution of adoption over time. Since only 100% clean renewable hydrogen will be delivered, to estimate GHG reductions at end users, assumptions regarding hydrogen adoption rates were made as shown in Tables 2A and 2B.

The values in Table 2A are based on an assumption of steady incremental increases with a goal of complete transition by 2050. The values in Table 2B were estimated based on manufacturer specification sheets and direct measurement studies. A dataset consisting of 22 data points, across 14 manufacturers, from manufacturers' data and scientific literature were used to estimate equipment-level hydrogen-natural gas blending percentages by taking a direct average. The estimated emissions are based on these assumptions.

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[33] AMF Bakery Systems, 2020, AMF Bakery Systems Introduces the World's First Emission-Free Hydrogen Tunnel Oven, press release, July 7, https://amfbakery.com/amf-bakery-systems-introduces-the-worlds-first-emission-free-hydrogen-tunnel-oven/

[34] DOE, 2024c, Depart of Energy Announces $10.5 Million to Advance Hydrogen Combustion Engine Innovation, press release, January 31, https://www.energy.gov/eere/fuelcells/articles/department-energy-announces-105-million-advance-hydrogen-combustion-engine

Table 2A Equipment-level Hydrogen-Natural Gas Blending Percentages						
Source	**Percent of Total H2 Demand as Pure Hydrogen**					
	2025	**2030**	**2035**	**2040**	**2045**	**2050**
Engine	0	20	40	60	80	100
Turbine	0	20	40	60	80	100
External Combustion	0	20	40	60	80	100
Oven	0	20	40	60	80	100

Table 2B Equipment Level Hydrogen Natural Gas Blending Ratios for Industrial End-users	
Source	**H2 to Natural Gas Ratio**
Engine	25%
Turbine	57%
External Combustion	22%
Oven	22%

3.5.3 Conduct Emissions Calculations

The Study prepared emission calculations using the emission factors and activity data compiled for each of the topic areas.

- The tool was designed to conduct calculations at the unit level (per unit equipment count, unit distance, unit throughput, or other unit parameters, as applicable).
- The emissions calculation tool was scaled from unit level information to estimate impacts across the geographic region.
- Emission calculations utilized information from evaluated research, the Demand Study, the Leakage Study, and other Phase 1 feasibility studies.

Emissions minimization opportunities can be implemented to reduce GHG (i.e., N_2O) emissions including equipment design opportunities, pre-mixing of air and fuel, management of air to fuel ratio to control combustion temperature, and emerging exhaust gas aftertreatment technologies. N_2O control equipment options also include existing technologies such as SCR and SNCR. Detailed information is available in the excel spreadsheets found in Appendix C.

4 BACKGROUND INFORMATION

4.1 PROPERTIES OF HYDROGEN

To effectively quantify greenhouse gas emissions from hydrogen combustion, one must fully grasp its unique combustive properties and the implications for GHG formation. Hydrogen has unique combustive properties that have the potential to eliminate the formation of GHG when combusted. Hydrogen offers a high energy content per mass and stands as a promising zero-carbon fuel, crucial in a carbon-reduced economy. Its broad flammability range allows operation across diverse air-to-fuel ratios from 34:1 to 180:1.[35] However, hydrogen's low ignition energy and high autoignition temperature may heighten the risk of flashback.[36] [37] Furthermore, hydrogen's high diffusivity helps in achieving even air-to-fuel mixtures, somewhat mitigating leakage-related safety concerns. Nevertheless, its low density means that a much greater volume is required to produce the same energy output as conventional fuels like natural gas.

4.2 REGULATORY INFORMATION

In the evolving landscape of energy regulation, both federal and state initiatives play a crucial role in shaping the future of Angeles Link and further deployment of hydrogen as a sustainable fuel. These policies, aimed at aligning energy production with environmental goals, are instrumental in reducing greenhouse gas emissions. The following discussion offers an in-depth examination of these legislative and regulatory measures.

Federal Legislation and Initiatives

- **Energy Policy Act of 2005[38]:** This Act supported diverse energy initiatives with provisions that specifically encouraged the development and use of hydrogen technology. It aimed to reduce dependency on fossil fuels and stimulate the commercialization of new energy technologies.

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[35] College of the Desert, 2001, Module 3: Hydrogen Use in Internal Combustion Engines, Hydrogen Fuel Cell Engines and Related Technologies Rev 0., December, https://www.energy.gov/sites/default/files/2014/03/f11/fcm03r0.pdf

[36] Slim, B.K., H. Darmeveil, G.H.J. van Dijk, D. Last, G.T. Pieters, M.H. Rotink, J.J. Overdiep, 2006, Should we add hydrogen to the natural gas grid to reduce CO2 emissions? (Consequences for gas utilization equipment), publication of the 23rd World Gas Conference, Amsterdam, http://members.igu.org/html/wgc2006/pdf/paper/add11558.pdf

[37] Slim, B.K., et. al., Ibid.

[38] US Congress, 2005, Energy Policy Act of 2005, Public Law 109-58, August 8, https://www.congress.gov/109/plaws/publ58/PLAW-109publ58.pdf

- **Energy Independence and Security Act of 2007[39]:** This legislation expanded the support for renewable fuels, including hydrogen, and required the periodic reevaluation of fuel economy standards, which are crucial for reducing the consumption of petroleum-based fuels and encouraging the use of cleaner alternatives.
- **Infrastructure Investment and Jobs Act of 2021[40]:** This Act included funding for the development of clean hydrogen hubs, which are intended to accelerate the deployment of hydrogen as a mainstream energy source and demonstrate its viability across different sectors.
- **Inflation Reduction Act (IRA) of 2022[41]**: The IRA passed in August 2022 provides a ten-year Production Tax Credit for clean hydrogen produced after December 31, 2022. The IRA defines tax credit tiers for “qualified clean hydrogen” with a well-to-gate GHG emission rate of less than 4.0 kilograms CO_2e per kilogram hydrogen.

Regulatory Developments

- **The U.S. Department of Energy:** Established the Clean Hydrogen Production Standard, targeting lifecycle greenhouse gas (GHG) emissions of ≤ 4.0 kg CO_2 equivalent per kilogram of hydrogen produced. This standard aims to ensure that hydrogen production is aligned with environmental goals.[42]
- **The Department of Treasury**: Drafted requirements for how to calculate carbon intensity, and to determine eligibility for the new tax credits under Section 45V, which will impact financial incentives for cleaner hydrogen production.[43]
- **The U.S. Environmental Protection Agency:** Is updating regulations under the Clean Air Act[44] to promote the adoption of low-GHG hydrogen, ensuring that the integration of hydrogen technologies does not adversely affect air quality.

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[39] US Congress, 2007 Energy Independence and Security Act of 2007, Public Law 110-140, December 19, https://www.congress.gov/110/plaws/publ140/PLAW-110publ140.pdf

[40] State of California, 2022a, SB1020 Clean Energy, Jobs, and Affordability Act of 2022, September 19, https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220SB1020

[41] US Congress, 2022, Inflation Reduction Act, Public Law 117-169, August 16, https://www.congress.gov/117/plaws/publ169/PLAW-117publ169.pdf

[42] Canary Media, ”Biden admin’s long-awaited hydrogen rules are here — and on the right track” Biden admin's long-awaited hydrogen rules are here —… | Canary Media

[43] DOE, 2023a, U.S. Department of Energy Clean Hydrogen Production Standard (CHPS) Guidance, June, https://www.hydrogen.energy.gov/docs/hydrogenprogramlibraries/pdfs/clean-hydrogen-production-standard-guidance.pdf

[44] DOE, 2023a, Ibid.

California State Legislation and Policies:

- **Global Warming Solutions Act of 2006 (AB 32)**[45]: Set ambitious targets for GHG reductions, mandating that California's GHG emissions return to 1990 levels by 2020. This act positions the state as a leader in climate action, directly influencing the adoption of cleaner technologies including hydrogen.
- **Senate Bill 32 (SB 32)**[46]: Extends the goals of AB 32 by targeting a 40% reduction in GHG emissions from 1990 levels by 2030, further pushing the need for innovative energy solutions like hydrogen.
- T**he Clean Energy and Pollution Reduction Act of 2015 (SB 350)**[47]: This Act advances California's energy policy by setting ambitious targets for renewable energy adoption and energy efficiency, aiming to increase the procurement of renewable energy sources to 50% by 2030 and doubling energy efficiency savings in electricity and natural gas end uses.
- **The 100 Percent Clean Energy Act of 2018 (SB 100)[48]:** This legislation establishes a policy that 100 percent of the state's electricity should come from clean energy sources by 2045 and increased the renewable portfolio standard, indicating that 60% of electricity must be generated from eligible renewable resources by 2030, which directly impacts the hydrogen sector as part of the broader clean energy strategy.
- **Assembly Bill 197 (AB 197)**[49]: Focuses on direct emission reductions and requires public transparency in emission data, which supports informed decision-making and accountability in emission management.
- **California Climate Crisis Act of 2022 (AB 1279)**[50]: Sets a long-term goal for achieving carbon neutrality by 2045, underscoring the state's commitment to drastic reductions in GHG emissions through policies including the support for renewable energy sources like hydrogen.

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[45] CARB, 2018, AB32 Global Warming Solutions Act of 2006 Fact Sheet, September 28, https://ww2.arb.ca.gov/resources/fact-sheets/ab-32-global-warming-solutions-act-2006

[46] State of California Legislative Information, 2016a, SB32 California Global Warming Solutions Act of 2006: emissions limit, filed September 8, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB32

[47] State of California Legislative Information, 2015, SB350 Clean Energy and Pollution Reduction Act of 2015, filed October 7, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB350

[48] California Energy Commission, 2023, SB100 Joint Agency Report, agency website, https://www.energy.ca.gov/sb100

[49] State of California Legislative Information, 2016b, AB197 State Air Resources Board: greenhouse gases: regulations, filed September 8, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160AB197

[50] State of California Legislative Information, 2022a, AB1279 The California Climate Crisis Act, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220AB1279

- **2021 Senate Bill 643:** Requires the CEC, CARB, and CPUC to assess the hydrogen infrastructure and fuel production required for the transition to zero emission vehicles.[51] Some manufacturers are developing prototype equipment and are hoping that their equipment can ultimately qualify as a Zero Emission Vehicle (ZEV) under CARB's Advanced Vehicle regulations. However, at this time, the only vehicle types that qualify as ZEVs are electric vehicles and hydrogen fuel cell vehicles.
- **Zero Emissions for California Ports (ZECAP):** A program funded by CARB with GTI Energy to develop and demonstrate zero-emission hydrogen fueled yard trucks at the Port of Los Angeles (POLA). Capacity Trucks built two hydrogen-fueled yard trucks, powered by Ballard fuel cell engines that were then tested at the TraPac Terminal at POLA for one year. The hydrogen-fueled yard trucks operated successfully and with 2.5 to 3 times the efficiency of conventional diesel powertrains.[52] [53]
- **Clean Air Action Plan (CAAP)** for the Port of Los Angeles and the Port of Long Beach sets targets for 100% ZEVs for cargo handling equipment by 2030.[54]
- **Commercial Harbor Crafts:** For new or replacement short-run ferries or excursion vessels, after January 1, 2023, the Commercial Harbor Craft Regulation requires that they meet Zero Emissions Advanced Technology (ZEAT).[55]
- **Cargo Handling Equipment:** The San Pedro Bay Ports Complex issued an initial CAAP in 2017 outlining their goal of achieving 100% ZEVs for cargo handling equipment by 2030, earlier than California's goal of zero emissions from mobile sources by 2035 established in EO N-79-20.[56] CARB has proposed to begin the transition to ZEVs for cargo handling equipment in 2026.[57] The CAAP requires that a feasibility assessment for zero-emission and near zero-emission cargo-handling

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[51] State of California Legislative Information, 2021, SB643 Fuel cell electric vehicle fueling infrastructure and fuel production: statewide assessment, October 7, https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220SB643

[52] CARB, 2023a, LCTI: Zero Emissions for California Ports (ZECAP), CARB website, https://ww2.arb.ca.gov/lcti-zero-emissions-california-ports-zecap

[53] Sowa, B., 2023, Zero and Near Zero Emission Freight Facilities Project: Zero Emissions for California Ports (ZECAP), GTI Energy, October, https://www.gti.energy/wp-content/uploads/2023/10/ZECAP-Final-Report-GTI-Energy-Rev2.pdf

[54] San Pedro Bay Ports Clean Air Action Plan, 2023, 2017 Clean Air Action Plan, https://cleanairactionplan.org/

[55] State of California, 2022b, Final Regulation Order Commercial Harbor Craft Regulation, Final Regulation Order: amending Code of Regulations, title 13, section 2299.5 and title 17, section 93118.5, Filed December 30, https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2021/chc2021/chcfro.pdf

[56] San Pedro Bay Ports Clean Air Action Plan, 2023, Ibid.

[57] CARB, 2022a, 2022 State Strategy for the State Implementation Plan, Adopted September 22, https://ww2.arb.ca.gov/sites/default/files/2022-08/2022_State_SIP_Strategy.pdf

equipment be completed every three years. In 2020, Hyster-Yale Group entered into a partnership with Capacity Trucks to develop hydrogen yard trucks.[58] Conductix Wampfler is in the concept design stage for a hydrogen fuel cell-powered RTG crane.[59]

- A proposal has been published to implement a **Zero Emission Forklift** rule in California as part of CARB's Mobile Source Strategy, State Implementation Plan, and Sustainable Freight Action Plan.[60]
- **Funding Agricultural Replacement Measures for Emission Reductions (FARMER):** This program has been implemented using funds from the cap-and-trade program to invest in research and development into zero emissions agricultural vehicles.[61]
- **Advanced Clean Cars II Regulation[62]**: This regulation requires an increasing number of zero-emission vehicles, including battery electric, hydrogen fuel cell electric and plug-in hybrid electric vehicles, to meet air quality and climate change emissions standards and requires all new passenger vehicles sold in California to be zero emissions by 2035.
- **AB 8:** This legislation required 20 percent of CEC's Clean Transportation Program funding be dedicated to hydrogen refueling stations until there are 100 open retail stations. It also required the CEC and CARB to jointly review and report on progress toward establishing a hydrogen fueling network that provides the coverage and capacity to fuel vehicles requiring hydrogen fuel.[63]

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[58] Hyster, 2020, Hyster-Yale Group and Capacity Trucks Enter Partnership to Jointly Develop Electric, Hydrogen, and Automation-Ready Terminal Tractors, Press Release, December 14, https://www.hyster.com/en-us/north-america/why-hyster/press-releases/2020/hyster-yale-group-and-capacity-trucks-enter-partnership-to-jointly-develop-electric-hydrogen-and-automation-ready-terminal-tractors/

[59] Tetra Tech/Gladstein, Neandross & Associates, 2022, 2021 Update Feasibility Assessment for Cargo-Handling Equipment, report for San Pedro Bay Ports Clean Air Action Plan, https://cleanairactionplan.org/strategies/cargo-handling-equipment/

[60] CARB, 2024b, Zero-Emission Forklifts, https://ww2.arb.ca.gov/our-work/programs/zero-emission-forklifts/about

[61] CARB, 2023b, FARMER Program, CARB webpage, https://ww2.arb.ca.gov/our-work/programs/farmer-program

[62] CARB, 2022b, Advanced Clean Cars II, https://ww2.arb.ca.gov/our-work/programs/advanced-clean-cars-program/advanced-clean-cars-ii

[63] CEC and CARB, December 2023, Joint Agency Staff Report on Assembly Bill 8: 2023 Annual Assessment of the Hydrogen Refueling Network in California, https://www.energy.ca.gov/sites/default/files/2023-12/CEC-600-2023-069.pdf

- **Executive Order B-48-18**[64]: This Executive Order ordered state entities to work with the private sector and all appropriate levels of government to spur construction and installation of 200 hydrogen fueling stations and 250,000 ZEV chargers, including 10,000 DC fast chargers, by 2025.
- **AB 1493**[65]**, SB X1-2**[66]**, and SB 535**[67]: These legislative measures address climate change by setting standards for vehicle GHG emissions, ensuring benefits from climate investments reach disadvantaged communities, and supporting the transition to a sustainable energy economy.
- **CARB 2022 Scoping Plan**[68]**:** This comprehensive strategy details actions for increasing the adoption of zero-emission vehicles, expanding renewable energy use, enhancing the cap-and-trade program to incentivize emission reductions, and developing carbon capture and storage technologies. It emphasizes fairness in the distribution of environmental benefits and burdens, particularly in pollution-impacted communities.
- **Advanced Clean Trucks and Advanced Clean Fleet regulation**[69] [70]**:** These regulations aim to accelerate the transition of medium- and heavy-duty vehicles to zero-emission vehicles, including hydrogen-fueled options, in both public and private transport sectors.

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[64] Governor Brown's Executive Order to spur investments in ZEV infrastructure, https://archive.gov.ca.gov/archive/gov39/2018/01/26/governor-brown-takes-action-to-increase-zero-emission-vehicles-fund-new-climate-investments/index.html#:~:text=IT%20IS%20FURTHER%20ORDERED%20that,current%20fast%20chargers%2C%20by%202025

[65] State of California Legislative Information, 2022b, AB1493 Vehicular emissions: greenhouse gases, July 22, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=200120020AB1493

[66] California Energy Commission, Senate Bill X1-2 Implementation, https://www.energy.ca.gov/proceeding/senate-bill-x1-2-implementation#:~:text=These%20regulations%20took%20effect%20February,took%20effect%20May%2020%2C%202024

[67] State of California Legislative Information, 2012, California Global Warming Solutions Act of 2006: Greenhouse Gas Reduction Fund, September 30, http://www.leginfo.ca.gov/pub/11-12/bill/sen/sb_0501-0550/sb_535_bill_20120930_chaptered.html

[68] CARB, 2022c, 2022 Scoping Plan: A pathway to carbon neutrality. 2022 Scoping Plan Documents | California Air Resources Board

[69] CARB, 2021, Advanced Clean Trucks Regulation, filed March 15, https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks

[70] CARB, 2024c, Innovative Clean Transit Regulation, https://ww2.arb.ca.gov/our-work/programs/innovative-clean-transit/about

- **Clean Miles Standard[71] and Innovative Clean Transit rule[72]**: These initiatives specifically promote zero-emission standards in public and commercial transportation, enhancing the role of hydrogen and other clean energy sources in reducing emissions from the transport sector.
- **Sector-Specific Regulations**: Include regulations like the Zero Emission Airport Shuttle Rule[73] and a proposal has been published to implement a Zero Emission Forklift rule in California.[74]
- **Additional Legislative Efforts Focusing on Hydrogen**: Bills such as SB 1075[75], which mandates a thorough evaluation of hydrogen's role in California's energy landscape, and SB 414[76], which requires an assessment of hydrogen applications, are crucial for framing the state's hydrogen strategy. SB 746, which proposes to include hydrogen as an alternate energy source in energy conservation contracts, is also important.[77]

These actions have established California as a leader in promoting renewable fuels and zero-emission technologies, influencing policies across various sectors including transportation and energy.

Feedback from stakeholders such as the Los Angeles Department of Water and Power (LADWP) and the South Coast Air Quality Management District (South Coast AQMD) has emphasized the technological and regulatory challenges in adopting hydrogen. These concerns highlight the need for ongoing adjustments to regulatory approaches to accommodate technological advancements and ensure effective emission reductions.

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[71] CARB, 2023c, Clean Miles Standard, https://ww2.arb.ca.gov/our-work/programs/clean-miles-standard

[72] CARB, 2024c, Ibid.

[73] CARB, 2019, Zero-Emission Airport Shuttle Regulation Factsheet, October, https://ww2.arb.ca.gov/sites/default/files/2019-10/asb_reg_factsheet.pdf

[74] DOE, 2018, Fact of the Month November 2018: There Are Now More Than 20,000 Hydrogen Fuel Cell Forklifts in Use Across the United States, https://www.energy.gov/eere/fuelcells/fact-month-november-2018-there-are-now-more-20000-hydrogen-fuel-cell-forklifts-use

[75] State of California Legislative Information, 2022c, SB1075 Hydrogen: green hydrogen: emissions of greenhouse gases, September 16, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202120220SB1075

[76] State of California Legislative Information, 2023, SB 414 Climate Change: applications using hydrogen: assessment, May 18, https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202320240SB414

[77] State of California, 2023, SB746 Energy conservation contracts: alternate energy equipment: green hydrogen: Tri-Valley-San Joaquin Valley Regional Rail Authority, October 7, https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202320240SB746

4.3 TECHNOLOGY DEVELOPMENTS

Manufacturers are advancing technology to enable combustion engines to function entirely on hydrogen, targeting applications in power generation, industrial heating, and transportation. Currently, smaller turbines such as Siemens' SGT-A35, with a capacity of 30-40 MW, and the SGT-400, rated at 10-15 MW, already operate on 100% hydrogen.[78] However, larger turbine models still require technological enhancements to sustain full hydrogen operation and maintain low air pollution levels. The leading manufacturers in this sector are Siemens, General Electric (GE), Solar, and Mitsubishi.

Both Siemens and GE are working towards developing large, advanced turbines that can achieve 100% hydrogen combustion by 2030. In 2022, the DOE provided financial assistance to manufacturers to develop hydrogen turbine combustion technology through the Industry Advanced Turbine Awards. The manufacturers who received these awards included GE for their H_2 F-Class retrofits, Solar Turbines for their GT Comb System for hydrogen and natural gas blends, and GE Research for their GT-Scale RDC Demo at 7FA cycle condition.[79]

Mitsubishi aims to reach this capability by 2025 and has already made progress; in 2018, their proprietary burner technology in Mitsubishi Hitachi Power Systems achieved a 10% reduction in CO_2 emissions with a 30% hydrogen blend.[80,81]

GE categorizes its turbines into four groups based on their hydrogen handling capacity: Aeroderivative, B/E-Class, F-Class, and HA-Class. Per GE Vernova, gas turbines are inherently fuel flexible and can be configured to use clean renewable hydrogen as new units or units upgraded after service using natural gas. Aeroderivative, B/E-Class and F-Class can currently handle up to 100% hydrogen and the HA-Class can currently handle 50% and is expected to be able to handle 100% hydrogen in the future.[82]

Siemens has also demonstrated the adaptability of their turbines to hydrogen: the Aeroderivative SGT-A35 turbines can operate on 100% hydrogen using special burners.[83] More recently, in 2023, Siemens announced that their SGT-400 unit, with a 10-15 MW

[78] EPA, 2023b, Hydrogen in Combustion Turbine Electric Generating Units, Ibid.
[79] DOE, 2023b, Addressing NO_x Emissions from Gas Turbines Fueled with Hydrogen, H2IQ Hour Webinar, September, www.energy.gov/eere/fuelcells/h2iq-hour-addressing-NOx-emissions-gas-turbines-fueled-hydrogen
[80] EPA, 2023b, Hydrogen in Combustion Turbine Electric Generating Units, Ibid.
[81] Mitsubishi Power, 2018, MHPS Successfully Tests Large-scale High-efficiency Gas Turbine Fueled by 30% Hydrogen Mix -- Will Contribute to Reducing CO2 Emissions during Power Generation, industry news release, January 19, https://power.mhi.com/news/20180119.html
[82] General Electric Vernova, Hydrogen-Fueled Gas Turbines | GE Vernova
[83] Siemens Energy, 2023a, SGT-A35 gas turbine, industry webpage, SGT-A35

capacity, successfully ran on 100% hydrogen.[84] Siemens' HL-class turbines are engineered to manage up to 50% hydrogen combustion.[85] Finally, Siemens has announced the “Zero Emission Hydrogen Turbine Center” which is a demonstration plant in Sweden to showcase a flexible and sustainable energy system connecting gas turbines with hydrogen, renewable electricity, and energy storage.[86]

[84] Hydrogeninsight, 2023, Siemens Energy burns 100% hydrogen in industrial gas turbine in energy-storage pilot, online energy transition publication, October 16, https://www.hydrogeninsight.com/power/correction-siemens-energy-burns-100-hydrogen-in-industrial-gas-turbine-in-energy-storage-pilot/2-1-1535850
[85] Siemens Energy, 2023b, SGT5-9000HL gas turbine, industry webpage, https://www.siemens-energy.com/global/en/offerings/power-generation/gas-turbines/sgt5-9000hl.html
[86] Siemens Energy, 2024, Zero Emission Hydrogen Turbine Center, https://www.siemens-energy.com/global/en/home/products-services/solutions-usecase/hydrogen/zehtc.html

5 ASSUMPTIONS AND RESULTS BASED ON DEMAND STUDY

This section summarizes GHG emissions calculations based on the Demand Study, aiming to project annual GHG emissions reductions for each year from 2030 to 2045. These results are grouped by infrastructure and by end-user sectors. Detailed emission calculations are provided in the Appendix to this Final Report. The analysis considers the following categories for projected GHG emissions:

- Infrastructure: This includes the production, storage, and transmission of hydrogen to end-users.
- End-Users: Covers mobility, power generation, and hard-to-electrify industrial sectors that are projected to utilize hydrogen.

Methodology: The methodology aggregates emissions reductions totals for each end-user subsector to derive totals for each sector. These sectoral totals are then summed with the anticipated GHG emissions from the new infrastructure to estimate overall annual GHG emissions reductions for the target years.

5.1 INFRASTRUCTURE

The results for potential GHG emission increases from new hydrogen infrastructure based on the conservative and ambitious demand scenarios for 2045 are up to 0.17% and 0.25% the magnitude of end-user reductions for these same scenarios.

5.1.1 Hydrogen Production (Third-Party)

Three equipment options were evaluated for hydrogen production to meet the definition of clean renewable hydrogen.

1. Electrolyzers powered by renewable electricity: zero GHG emissions.
2. Biomass gasification: zero GHG emissions[87]
3. RNG SMR (Renewable Natural Gas Steam Methane Reforming) with hydrogen as combustion fuel for heater: Could include some GHG emissions in the form of trace amounts of N_2O.

Multiple scenarios were evaluated with varying contributions to total production by each of the three types of equipment listed above to estimate the range of potential GHG emissions. The estimated emissions range from zero GHG associated with the 100% electrolysis and the 100% biomass gasification scenarios to the potential for some GHG emissions for the 100% RNG SMR scenario as detailed below. These estimates can be refined as more detailed project information from third-party producers becomes available, particularly regarding production processes and the proportions of hydrogen

[87] The Study only considered biomass gasification that uses a process that is carbon neutral.

produced from different methods. Estimated GHG emission results are provided for the conservative and ambitious demand scenarios in Table 3.

Table 3 presents the projected GHG emissions from hydrogen production technologies based on the conservative and ambitious demand scenarios. This table categorizes emissions into minimum and maximum estimates in five-year increments from 2030 to the year 2045. For the conservative demand scenario, the estimates range from 1,120 MT CO2e in 2030 to 16,245 MT CO2e in 2045, based on 100% use of Steam Methane Reforming (SMR) with Renewable Natural Gas (RNG). For the ambitious demand scenario, the estimates range from 9,448 MT CO2e in 2030 to 50,080 MT CO2e by 2045 under the 100% RNG SMR scenario. In contrast, the low estimates demonstrate zero emissions across all years, reflecting scenarios where 100% of hydrogen production is achieved through electrolysis or biomass gasification.

Table 3
Potential Direct GHG Emissions from Hydrogen Production Based on Demand Scenarios

Demand Scenario	Emissions (MT CO_2e/yr)				Production Scenario
	2030	2035	2040	2045	
Conservative Max	1,120	4,448	9,552	16,245	100% SMR (Max Case)
Conservative Min	0	0	0	0	100% Electrolysis or Biomass Gasification
Ambitious Max	9,448	19,565	33,369	50,080	100% SMR (Max Case)
Ambitious Min	0	0	0	0	100% Electrolysis or Biomass Gasification

5.1.2 Storage (Third-Party) and Transmission

For the storage and transmission of hydrogen, the following three types of compressors were evaluated. Further details regarding compressors being considered are available in the parallel Phase 1 Pipeline Sizing and Routing Study.

1. Electric Motor-Driven Compressors: These utilize electricity from renewable sources, resulting in zero GHG emissions.
2. Hydrogen-Fueled Reciprocating Engine Driven Compressors: Emits no CO_2. However, trace amounts of N_2O could form from the nitrogen present in the combustion air at specific temperatures.

3. Hydrogen-Fueled Turbine Driven Compressors: Similar to reciprocating engines, these compressors could also emit trace amounts of N_2O.

Emissions of GHG (as N_2O) from hydrogen fueled reciprocating engine driven compressors and from turbine driven compressors were conservatively estimated using equation 1:

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

The first equation (equation 1) multiplies the quantity of clean renewable hydrogen by the N_2O emission factor assumed in this Study for hydrogen. The emissions for N_2O are then multiplied by the GWP as shown in Table 1 to determine GHG emissions in units of CO2e.

This evaluation assumed that storage requirements would be similar between hydrogen and natural gas to accommodate fluctuations in fuel supply and demand. Data from 2022 from the "2023 California Gas Report Supplement"[88] was used to estimate a California-specific value for the fraction of annual hydrogen demand that would be stored. From this source, it was determined that the average quantity of supplied natural gas in California during 2022 was 6,023 MMcf/day, which equates to approximately 2,198 Bcf/yr. This source also indicated that in 2022 California had a natural gas storage capacity of approximately 304 Bcf. Dividing these two values yielded a maximum (conservative) fraction of annual natural gas demand that would be stored: 13.8%. This value was applied to hydrogen; therefore, it was assumed that annually 13.8% of hydrogen demand would be stored.

The Study evaluates two storage pressure scenarios—290 psi (low pressure) and 2,900 psi (high pressure). These were developed based on an article that presented a variety of hydrogen storage options and their corresponding pressures. The highest and lowest pressures from this publication were utilized to represent the full range of potential storage pressures, and therefore storage compressor energy demands, from this project. These low and high storage pressure scenarios were 20 bar (290 psi) and 200 bar (2,900 bar) respectively.[89] The energy needed to store hydrogen at 290 psi and 2,900 psi was determined to be 4 megajoules (MJ)/kg and 14 MJ/kg, respectively.

The Study also assumed a transmission distance of 450 miles based on information provided by the Pipeline Sizing and Routing Study. Efficiency values for reciprocating engines and turbines were also sourced from scientific literature to convert fuel energy in

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88 CPUC, 2023, 2023 California Gas Report Supplement prepared per Decision D.95-01-039, https://www.socalgas.com/sites/default/files/Joint_Biennial_California_Gas_Report_2023_Supplement.pdf

89 Tahan, M., 2022, Recent advances in hydrogen compressors for use in large-scale renewable energy integration, International Journal of Hydrogen Energy 47(83): 35275-35292, https://doi.org/10.1016/j.ijhydene.2022.08.128

units of MMBtu to energy supplied by power sources for compression in units of MJ. These efficiency values were 60.3% and 51.9% for hydrogen fueled reciprocating engines and turbines respectively. Please refer to the Pipeline Sizing and Routing Study for additional information.

These parameters are preliminary assumptions being used since detailed design data is not available for this feasibility study. Future refinements in GHG emission estimates could incorporate more specific details on compressor types, sizes, and quantities, as well as assumptions about storage volumes and pressures. Additionally, development of assumptions regarding aboveground and underground storage volumes and pressures can support development of refinement of GHG emission estimates.

Results for storage and transmission for GHG emissions are provided for the conservative demand scenario in Tables 4 and 5, respectively. Table 4 displays the emissions from hydrogen storage at two pressure levels based on the conservative demand scenario. For high-pressure storage using turbine-driven compressors, emissions rise from 204 MT CO2e in 2030 to 2,959 MT CO2e in 2045. Based on the ambitious demand scenario, the values range from 1,200 MT CO2e in 2030 to 10,599 MT CO2e in 2045. When electric motor-driven compressors are used at any pressure, the emissions remain at zero throughout the study period.

Table 4
Potential Direct GHG Emissions from Hydrogen Storage Based on Demand Scenarios

Demand Scenario	Emissions (MT CO_2e/yr)				Scenario	
	2030	2035	2040	2045	Storage Pressure	Power Source
Conservative Max	204	810	1,740	2,959	2,900 psi	Turbine
Conservative Min	0	0	0	0	All Pressures	Renewable Electricity
Ambitious Max	2,000	4,141	7,062	10,599	2,900 psi	Turbine
Ambitious Min	0	0	0	0	All Pressures	Renewable Electricity

Table 5 presents the emissions associated with using compressors to support transmission of hydrogen over a 450 mile distance. For hydrogen-fueled compressors, the emissions increase from 609 MT CO2e in 2030 to 8,829 MT CO2e by 2045 for the conservative demand scenario. Emissions for hydrogen transmission using hydrogen-fueled compressors are estimated at 5,135 MT CO2e in 2030 and 27,220 MT CO2e by 2045 for the ambitious demand scenario. When using electric motor-driven compressors powered by renewable electricity, the emissions are maintained at zero.

Table 5
Potential Direct GHG Emissions from Hydrogen Transmission Based on Demand Scenarios

Demand Scenario	Emissions (MT CO_2e/yr)				Scenario	
	2030	2035	2040	2045	Transmission Distance	Power Source
Conservative Max	609	2,418	5,192	8,829	450 miles	Hydrogen
Conservative Min	0	0	0	0	All Distances	Renewable Electricity
Ambitious Max	5,135	10,634	18,137	27,220	450 miles	Hydrogen
Ambitious Min	0	0	0	0	All Distances	Renewable Electricity

5.2 END USERS

Consistent with the Decision, Angeles Link is intended to transport clean renewable hydrogen to multiple end user sectors. The focus of the GHG emissions study was on three sectors of end-users identified in the parallel Demand Study: mobility, power generation, and hard to electrify industrial. The Demand Study estimated quantities of diesel and gasoline that may be displaced by hydrogen fuel cells in the mobility sector. The Demand Study also estimated quantities of natural gas that may be displaced by hydrogen fuel in the power generation and hard to electrify industrial sectors.

As described in the Routing Analysis, SoCalGas's route selection process evaluates directional pathways that account for engineering, environmental, social, and environmental justice features along four potential preferred routes. A final preferred route will be selected in Phase 2 of Angeles Link. Once the final preferred route is selected, more specific details regarding potential end users can be developed.

The potential for leakage at end users was not quantified as part of this study; and the minimal information regarding leakage at end users that was available in the literature was added to Section 4.1.1 of the Leakage Study.

5.2.1 Mobility

Mobility is the largest end-user sector for GHG emission reductions, accounting for 72.5% and 50.3% of overall reductions in 2045 for the conservative and ambitious demand scenarios, respectively, due to the substitution of hydrogen fuel cells for fossil fuels. Potential sources of GHG emissions in this sector include on-road vehicles such as heavy-duty vehicles (HDV), medium-duty vehicles (MDV), and buses. For example, the 'Zero Emission Bus Transition Plan' specifically targets AC Transit in Oakland, California, focusing on deploying hydrogen fuel cells and electric buses to advance its long-standing public transit services.[90] The Mobility sector also includes off-road vehicles in Agriculture, Commercial Harbor Craft (CHC), Cargo Handling Equipment at ports (CHE), Construction and Mining, and Ground Support Equipment at airports (GSE).

- Conservative Demand Scenario, 2045
    - On-Road Vehicles account for 93.9% of Mobility GHG emission reductions
        - Heavy Duty Vehicles are 58.5% of Mobility GHG reductions for the year 2045.
    - Off-Road Vehicles account for 6.1% of Mobility GHG emission reductions
- Ambitious Demand Scenario, 2045
    - On-Road Vehicles account for 94.6% of Mobility GHG emission reductions
        - Heavy Duty Vehicles are 62.8% of Mobility GHG reductions for the year 2045.
    - Off-Road Vehicles account for 4.4% of Mobility GHG emission reductions

The assumptions for the Mobility sector are primarily that diesel and gasoline fuel will be displaced, and vehicles would convert to hydrogen fuel cells with zero emissions. Emission factors for GHG from displaced diesel and gasoline fuel were developed using EMFAC data. The EMFAC model contains sufficient data to estimate CO_2, CH_4, and N_2O emissions for on-road mobile sources, and CO_2 emissions for off-road mobile sources. The EMFAC model does not include CH_4 and N_2O emissions data for off-road mobile vehicles. Research was conducted to estimate the most representative CH_4 and N_2O emissions factors for off-road mobile sources. Fuel consumption was weighted by subcategory of vehicle types. The same two equations previously mentioned were used to conduct the GHG calculations, and the hydrogen emissions value in equation 2 is zero.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

[90] AC Transit, Zero Emission Bus Transition Plan, 2022, https://www.actransit.org/sites/default/files/2022-06/0162-22%20ZEB%20Transition%20Plan_052022_FNL.pdf (actransit.org)

The total emissions were calculated by summing totals for each equipment type and are shown in Table 6. Figures 2A and 2B provide graphs for the conservative and ambitious demand scenarios, respectively below. The GHG reductions estimated for the conservative demand scenario in 2045 are equivalent to approximately 2.7 million gasoline passenger vehicles driven for one year per EPA Calculator. The GHG reductions estimated for the ambitious demand Scenario in 2045 are equivalent to over 4 million gasoline passenger vehicles driven for one year per EPA Calculator.

Table 6
Mobility Direct GHG Combustion Emission Reductions (million MT CO_2e/yr)

Demand Scenario	2030	2035	2040	2045
Conservative	0.94	3.81	7.84	12.14
Ambitious	4.44	9.04	13.97	17.98

Table 6 illustrates the expected reductions in GHG emissions within the mobility sector, under conservative and ambitious demand scenarios, spanning from 2030 to 2045. In the conservative demand scenario, GHG reductions are substantial, beginning at approximately 939 thousand metric tons of CO_2 equivalent (MT CO2e) in 2030 and increasing by more than ten-fold to over 12 million MT CO2e by 2045. This increase reflects a growing adoption of hydrogen-fueled mobility solutions. Under the ambitious demand scenario, the reductions are even more pronounced, starting at about 4.4 million MT CO2e in 2030 and escalating to nearly 18 million MT CO2e by 2045. These figures suggest a robust integration of hydrogen in transportation, cutting GHG emissions as the Mobility sector transitions away from fossil fuels.

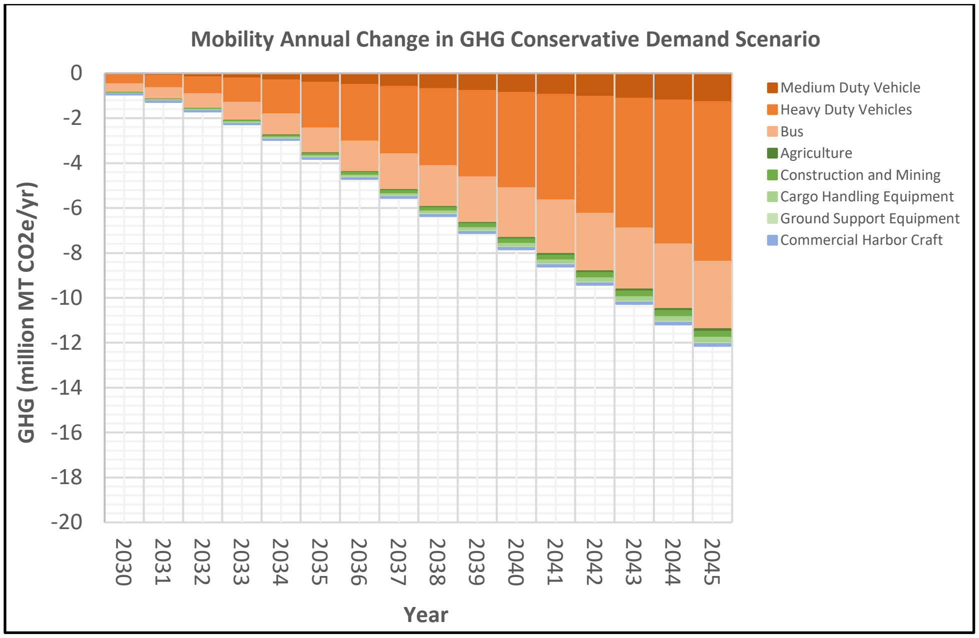

Figure 2A. Mobility Annual Change in GHG - Conservative Demand Scenario

Figure 2A visualizes the annual change in GHG emissions for the Mobility sector under the conservative demand scenario over the period from 2030 to 2045. The chart shows a steady decline in GHG emissions, with the largest reductions seen in heavy-duty vehicles. Medium-duty vehicles, buses, and other categories such as Agriculture and Construction contribute to the overall decrease but to a lesser extent. This trend reflects the potential impact of deploying clean hydrogen fuel cell technology in reducing emissions from various subsectors within mobility, with the most substantial effect seen in the heavy-duty vehicle category.

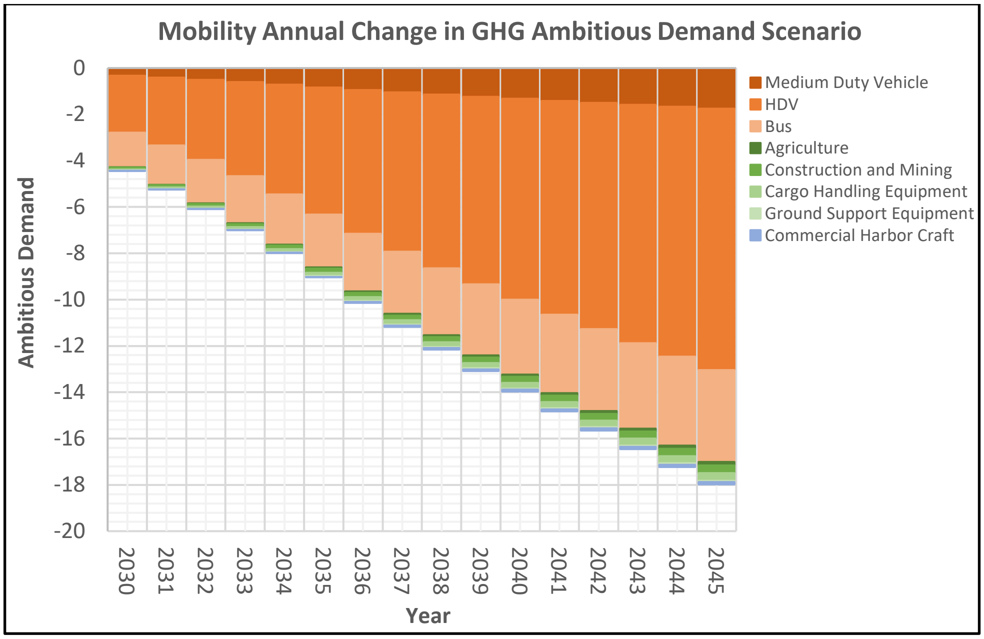

Figure 2B. Mobility Annual Change in GHG - Ambitious Demand Scenario

Figure 2B presents the changes in GHG emissions in the ambitious demand scenario, which assumes higher shift towards hydrogen fuel cell vehicles across the Mobility sector. The decreasing stacked bars, which represent different vehicle categories, indicate an even more pronounced annual decrease in GHG emissions compared to the conservative demand scenario. Heavy-duty vehicles remain the largest contributors to GHG reductions, followed by medium-duty vehicles and buses. The chart illustrates a potential future where a ambitious demand for hydrogen in the mobility sector could lead to much lower GHG emissions, showcasing the Mobility sector's pivotal role in achieving broader climate targets.

5.2.2 Power Generation

The results for the anticipated GHG emissions reductions based on the conservative and ambitious demand scenarios data in 2045 are that the Power Generation sector accounts for 23.6% and 41.7% of overall GHG reductions, respectively. The assumptions that were applied to develop the GHG emissions calculations include that hydrogen will displace natural gas as a fuel with increasing amounts over time (from 2030 to 2045). The potential for leakage at power generation end users such as when hydrogen is transferred from onsite storage or pipelines to onsite hydrogen combustion equipment is acknowledged but was not quantified as part of this study.

This Study is focused on estimating GHG emissions reductions anticipated to be associated with use of clean renewable hydrogen as a fuel in the power generation sector relating to the development of Angeles Link. At the time of this Study, there is not sufficient detailed project information to estimate the quantity of electricity anticipated to be produced using 100% clean renewable hydrogen as the future annual average utilization and the capacity factor for thermal power plant generation is not known.

For each emission source type identified, calculations to estimate GHG emissions were prepared using the same two equations previously mentioned.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

The first equation (equation 1) multiplies the quantity of fuel by the GHG emission factor specific to the fuel for each GHG pollutant. These pollutants are CO_2, CH_4, and N_2O for combustion of fossil fuels and trace amounts of N_2O for combustion of hydrogen. Each GHG has a specific fuel dependent emission factor and a unique GWP as shown in Table 1. The emissions for each of CO_2, CH_4, and N_2O are multiplied by their respective GWP and then summed to obtain the total GHG emissions in units of CO2e.

The second equation (equation 2) calculates the GHG emission reductions in CO2e by subtracting the GHG emissions for hydrogen (either for N_2O from combustion of hydrogen or zero for hydrogen fuel cells) from the GHG emissions for combustion of displaced fossil fuels. The GHG emissions for combustion of hydrogen and for combustion of fossil fuels are both derived from equation 1.

As previously noted, for combustion of clean renewable hydrogen, GHG is comprised entirely of N_2O from the nitrogen present in the combustion air at specific temperatures, and since the GWP 20 and GWP 100 for N_2O are both 273, the expected impacts in both short term and long term should be similar. The total emissions were calculated by summing totals for each equipment type and are shown in Table 7. Detailed information is available in the excel spreadsheets found in Appendix C.

Table 7
Power Generation Direct GHG Combustion Emission Reductions
(million MT CO_2e/yr)

Demand Scenario	2030	2035	2040	2045
Conservative	0.04	0.61	1.87	3.95
Ambitious	0.16	2.30	7.06	14.90

Table 7 quantifies the projected reductions in GHG emissions within the Power generation sector for both conservative and ambitious demand scenarios from 2030 to 2045. In the conservative demand scenario, the reductions begin modestly at 0.04 million MT CO2e in 2030, gradually escalating to 3.95 million MT CO2e by 2045, accounting for 23.6% of the overall anticipated GHG reductions. For the ambitious demand scenario, the reductions are greater, starting at 0.16 million MT CO2e and surging to 14.90 million MT CO2e by 2045, contributing to 41.7% of the total expected reductions. These estimates reflect the impact of transitioning to clean renewable hydrogen in Power generation, highlighting the sector's potential contribution to reducing GHG emissions.

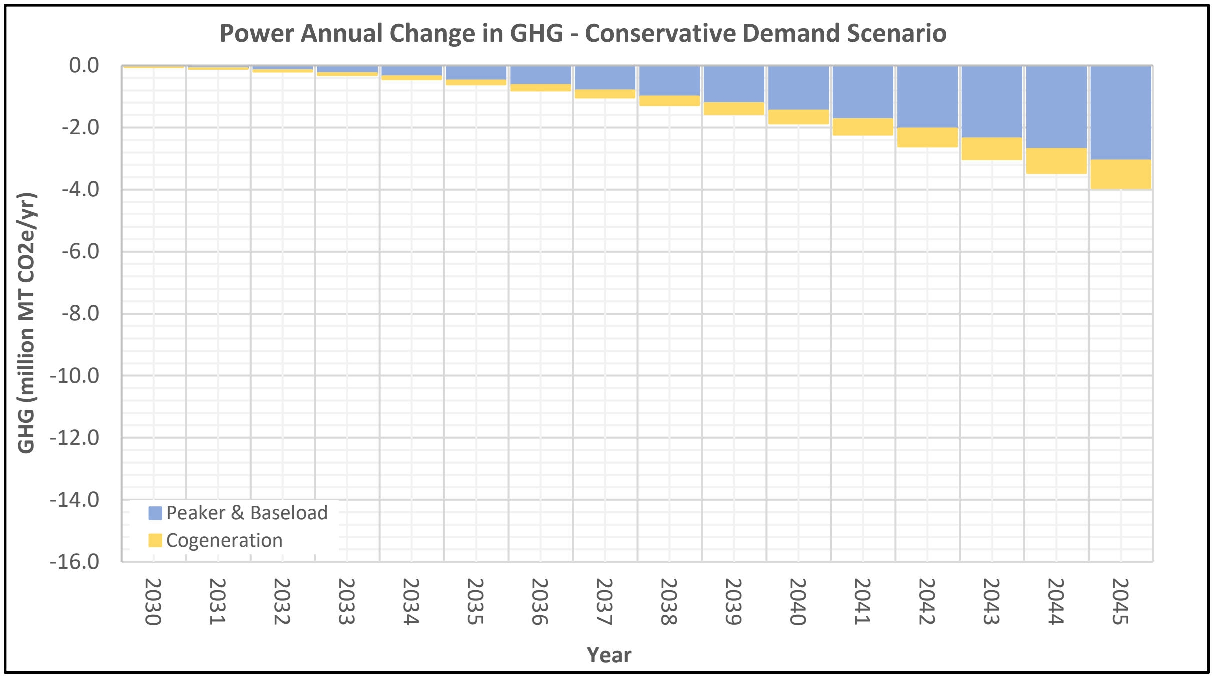

Figure 3A. Power Annual Change in GHG - Conservative Demand Scenario

Figure 3A represents the annual change in GHG emissions for the Power sector under the conservative demand scenario. It features two distinct segments in each bar: the larger, representing base load and peaker power generation units, and the smaller, cogeneration units. Together, they depict a downward trend in emissions, signaling a reduction in GHG as the sector pivots towards clean renewable hydrogen use. By 2045, this shift equates to the GHG emissions of over 769,537 households' annual electricity consumption.

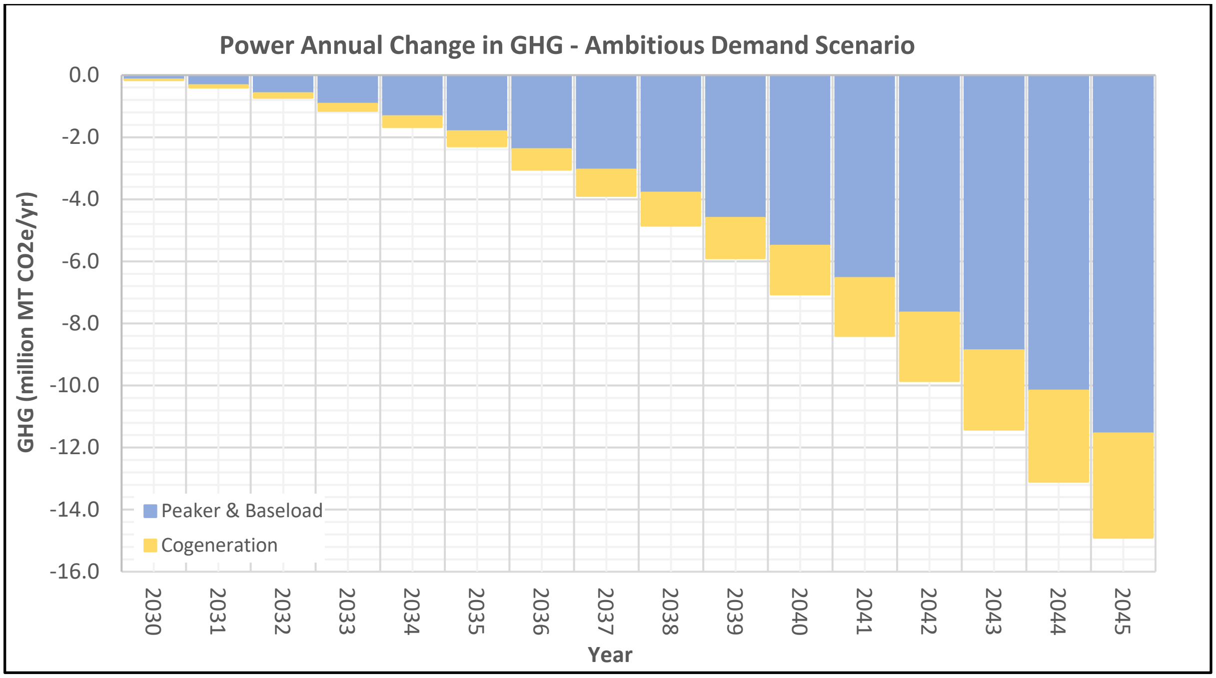

Figure 3B. Power Annual Change in GHG - Ambitious Demand Scenario

Figure 3B illustrates the Power sector's annual GHG emissions changes under the ambitious demand scenario, showing deeper reductions than the conservative demand scenario. This scenario implies a faster adoption of clean renewable hydrogen as a fuel source, with the dark blue and yellow bars representing peaker and base load and cogeneration units, respectively. The staggered bars mirror an increased decline in emissions year over year, culminating in a decrease comparable to the annual electricity use of nearly 2.91 million homes by 2045. This emphasizes the transformative potential of a high demand shift to clean renewable hydrogen fuel, substantially lowering the Power sector's carbon footprint.

5.2.3 Hard to Electrify Industrial

Hard to Electrify Industrial sectors include energy-intensive industries such as refining; food and beverage manufacturing; primary and fabricated metals; stone, clay, and glass (including cement); chemical manufacturing; wood and paper; petroleum products; mining; ammonia production; industrial launderers; co-generation; and textile manufacturing. These sectors are anticipated to initially blend hydrogen with natural gas in 2030 and then eventually transition to pure hydrogen by 2050. Source types with the potential for GHG emissions in the Hard to Electrify Industrial sectors include hot water boilers, steam generating units, process heaters, furnaces/kilns, reciprocating internal combustion engines, turbines, and miscellaneous combustion equipment.

The results for the anticipated GHG emissions reductions associated with the Industrial sector based on the conservative and ambitious demand scenario data in 2045 are that the Industrial sector accounts for 3.9% and 8.1% of overall GHG reductions, respectively. The assumptions that were applied to develop the GHG emissions calculations include that clean renewable hydrogen will displace natural gas as a fuel with increasing amounts over time (from 2030 to 2045). It should be noted that consistent with the Decision, Angeles Link is intended as a project to transport only 100% clean renewable hydrogen in the pipeline, and any analysis of hydrogen blending refers strictly to “behind-the-meter” operations, not within SoCalGas control. This Study does not dictate if end users will blend hydrogen with natural gas and makes assumptions regarding adoption rates based on currently available information regarding equipment and the anticipated evolution of adoption over time. Since only 100% clean renewable hydrogen will be delivered, to estimate GHG reductions at end users, assumptions regarding hydrogen adoption rates were made as shown in Tables 2A and 2B. The estimated emissions are based on these assumptions.

The potential for leakage at hard to electrify industrial end users such as when hydrogen is transferred from onsite storage or pipelines to onsite hydrogen combustion equipment is acknowledged but was not quantified as part of this study.

For each emission source type identified, calculations to estimate emissions were prepared using the same two equations previously mentioned.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

The first equation (equation 1) multiplies the quantity of fuel by the GHG emission factor specific to the fuel for each GHG pollutant. These pollutants are CO_2, CH_4, and N_2O for combustion of fossil fuels and N_2O for combustion of hydrogen. Each GHG has a specific fuel dependent emission factor and a unique GWP as shown in Table 1. The emissions for each of CO_2, CH_4, and N_2O are multiplied by their respective GWP and then summed to obtain the total GHG emissions in units of CO2e.

The second equation (equation 2) calculates the GHG emission reductions in CO2e by subtracting the GHG emissions for hydrogen (either for N_2O from combustion of hydrogen or zero for hydrogen fuel cells) from the GHG emissions for combustion of displaced fossil fuels. The GHG emissions for combustion of hydrogen and for combustion of fossil fuels are both derived from equation 1.

As previously mentioned, for combustion of clean renewable hydrogen with GHG emissions comprised entirely of N_2O, since the GWP 20 and GWP 100 for N_2O are both 273, the expected impacts in both short term and long term should be similar.

The total emissions were calculated by summing the totals for each equipment type and are shown in Table 8. Figures 4A and 4B provide graphs for the conservative and ambitious demand scenarios, respectively below. The GHG reductions predicted for the conservative demand scenario in 2045 are equivalent to 139,007 homes' electricity use for one year per EPA Calculator. The GHG reductions predicted for the ambitious demand scenario in 2045 are equivalent to 603,582 homes' electricity use for one year per EPA Calculator. Detailed information is available in Appendix C.

Table 8
Hard-to-Electrify Industrial Direct GHG Combustion Emission Reductions (million MT CO_2e/yr)

Demand Scenario	2030	2035	2040	2045
Conservative	0.28	0.45	0.56	0.65
Ambitious	1.13	1.91	2.45	2.89

Table 8 focuses on the GHG emission reductions in the industrial sector, a variety of energy-intensive industries facing challenges in electrification. The table reflects emission reductions from 2030 through 2045 under conservative and ambitious demand scenarios. Under the conservative demand scenario, reductions start at 0.28 million MT CO2e in 2030, modestly increasing to 0.65 million MT CO2e by 2045. This change represents a steady progression towards cleaner energy usage within these industries, accounting for 3.9% of the overall GHG reduction. In contrast, the ambitious demand scenario starts at 1.13 million MT CO2e in 2030, ramping up to 2.89 million MT CO2e by 2045, indicating more aggressive adoption rates of clean renewable hydrogen as a replacement for natural gas, contributing to 8.1% of total GHG reductions. The trajectory of both scenarios suggests an evolving industrial landscape where clean renewable hydrogen plays a key role in reducing emissions.

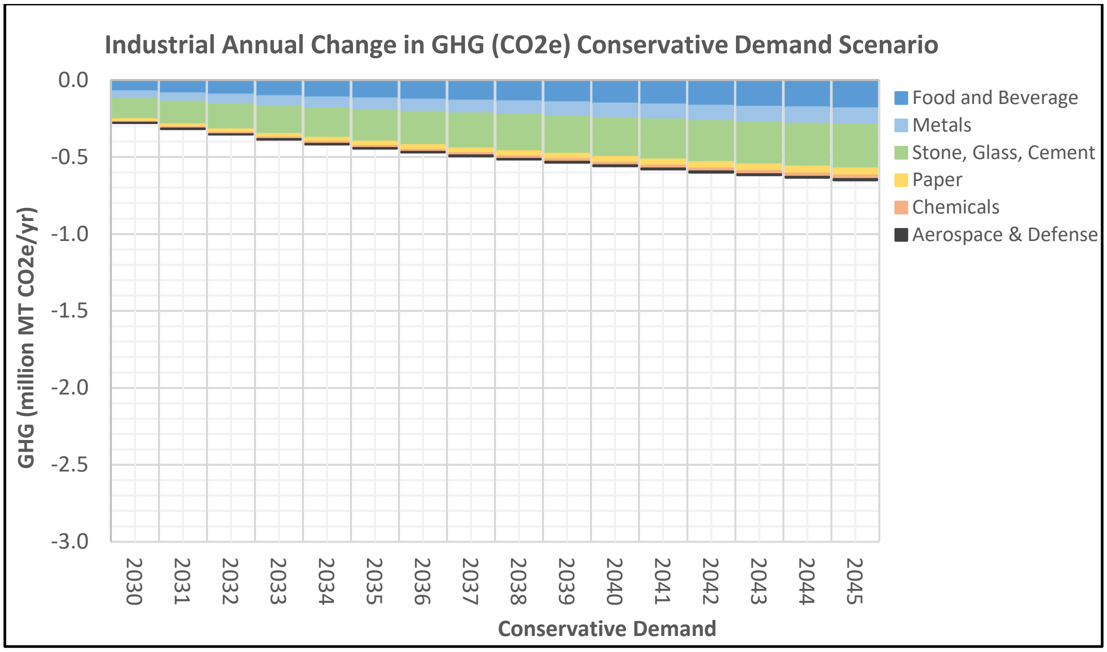

Figure 4A. Industrial Annual Change in GHG - Conservative Demand Scenario

Figure 4A visualizes the decline in GHG emissions across various sub-sectors in the industrial sector for the conservative demand scenario. It showcases how industries like food and beverage, metals, and others are expected to reduce their emissions over the years, with the most substantial decreases projected in the refining sector. The total projected GHG emission reductions in 2045 are equivalent to the annual electricity usage of about 139,000 homes.

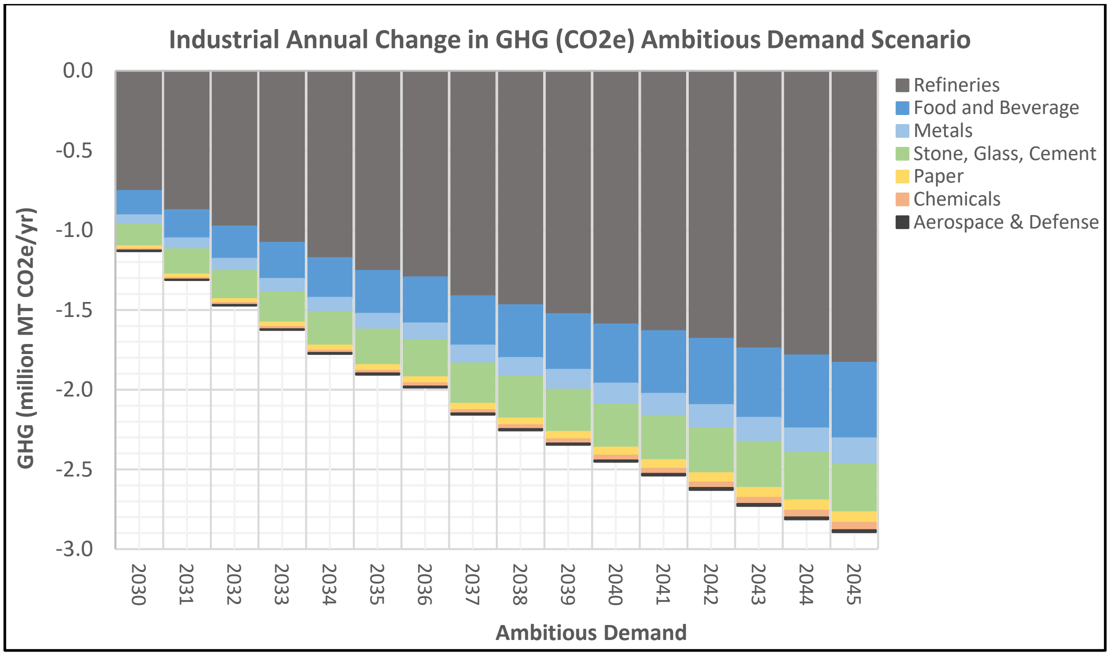

Figure 4B. Industrial Annual Change in GHG – Ambitious Demand Scenario

Figure 4B depicts a larger reduction in GHG emissions within the industrial sector under the ambitious demand scenario. The larger scale of reductions mirrors a more robust transition to clean renewable hydrogen fuel, with the refining sector again making up the largest proportion of decreases. The graph indicates that the industrial sector could achieve GHG reductions in 2045 equating to the yearly electricity use of 603,582 homes. This scenario emphasizes the sector's potential for substantial contributions to overall emission reductions with an intensified hydrogen adoption rate.

6 OVERALL RESULTS BASED ON DEMAND STUDY SCENARIOS

The anticipated potential minor GHG emissions associated with the new infrastructure were added to the overwhelmingly large anticipated GHG emissions reductions associated with potential end users of clean renewable hydrogen as defined by the Demand Study.[91] The total GHG reductions predicted for the conservative demand scenario in 2045 for end-users are equivalent to more than 3,255,000 homes' electricity use for one year per EPA Calculator. The total GHG reductions predicted for the ambitious demand scenario in 2045 for end-users are equivalent to more than 6,961,000 homes' electricity use for one year per EPA Calculator. The results are provided in Table 9 and in Figures 5A and 5B below. Detailed information is available in the excel spreadsheets found in Appendix C.

In summary:

- Projected up to nearly 17 and 36 million metric tons of CO2e removed per year from SoCalGas territory geographic area by end users by 2045 for conservative and ambitious demand scenarios, respectively.
- Infrastructure GHG emissions are smaller than end-user reductions.
    - The highest potential infrastructure GHG emissions estimated are 0.17% and 0.25% the magnitude of overall end-user reductions for conservative and ambitious demand scenarios, respectively, in 2045.
- Mobility GHG emissions would be eliminated with clean renewable hydrogen substitution when fossil fuels are replaced with hydrogen fuel cells. In the Mobility sector, hydrogen fuel cells offer a substantial reduction in GHG emissions by replacing diesel and gasoline in vehicles. This sector shows the highest reduction potential due to the large contributions to emissions by heavy-duty and medium-duty vehicles using traditional fuels.
    - Mobility comprises 72.5% and 50.3% of overall GHG reductions for conservative and ambitious demand scenarios, respectively, in the year 2045.
- Industrial and Power Generation GHG emissions are almost entirely eliminated when fossil fuels are replaced by clean renewable hydrogen as a fuel in combustion equipment. Hard-to-Electrify Industrial sectors benefit from clean

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[91] SoCalGas's Demand Study projections were based on independently developed assumptions and analysis of potential hydrogen uptake in the SoCalGas service territory. The Demand Study was peer reviewed by experts at third parties, including National Renewable Energy Lab (NREL), South Coast Air Quality Management District (South Coast AQMD), University of California Los Angeles (UCLA), UC Irvine (UCI), and UC Davis (UCD). When looking at these projections holistically, the Demand Study's conclusions are near or within the range of recently released projections of hydrogen demand in California.

renewable hydrogen in reducing emissions from processes that are currently reliant on high-temperature operations and fossil fuels. The smaller percentage in overall reductions compared to mobility and power generation reflects the complex challenges and slower transition expected in these sectors.

- Power generation comprises 23.6% and 41.7% of overall GHG reductions for conservative and ambitious demand scenarios, respectively, in 2045.
- Industrial comprises 3.9% and 8.1% of overall GHG reductions for conservative and ambitious demand scenarios, respectively, in 2045.

Table 9
Annual Change in Direct GHG Emissions for Demand Scenarios (MT CO_2e/yr)

Category	Demand Scenario	2030	2035	2040	2045
End-Users	Conservative	-1,261,530	-4,864,767	-10,265,012	-16,731,269
	Moderate	-2,762,724	-7,948,981	-15,674,833	-24,958,279
	Ambitious	-5,729,290	-13,244,418	-23,490,552	-35,776,958
Infrastructure	Max - Conservative	1,966	7,807	16,765	28,512
	Max – Moderate	4,234	13,363	27,657	46,447
	Max – Ambitious	16,583	34,339	58,568	87,899
	Min - Conservative	0	0	0	0
	Min – Moderate	0	0	0	0
	Min – Ambitious	0	0	0	0
TOTAL	Conservative	-1,259,565	-4,856,960	-10,248,247	-16,702,756
	Moderate	-2,758,490	-7,935,593	-15,647,156	-24,911,832
	Ambitious	-5,712,707	-13,210,054	-23,431,964	-35,689,059

Table 9 presents a comprehensive view of the anticipated yearly change in GHG emissions across different scenarios, capturing the transformational impact of clean renewable hydrogen adoption by end-users within the SoCalGas territory by 2045. In the conservative demand scenario, end-user emissions reductions start at 1.3 million metric tons (MT) of CO2e per year in 2030 and expand to a reduction of 16.7 million MT CO2e by 2045. The moderate and ambitious scenarios show even more dramatic decreases, with the ambitious scenario projecting reductions of over 35.8 million MT CO2e annually by 2045. Conversely, infrastructure related GHG emissions represent a minimal increase in the overall emissions profile, peaking at just 0.29% of the magnitude of end-user reductions.

The overall GHG reductions shown conservatively apply the high-end (max values) of the infrastructure emission estimates that range from zero to 87,899 MT/year in 2045 for the ambitious demand scenario. The overall estimated GHG reductions range from 5.7 MMTYP CO_2e in 2030 to 35.7 MMTPY CO_2e by 2045.

The analysis shows the potential for GHG emission reductions, equating to the annual power usage of over 3.25 million homes for the conservative demand scenario and more than 6.96 million homes for the ambitious demand scenario, emphasizing the role of end-users in driving down GHG emissions through hydrogen use.

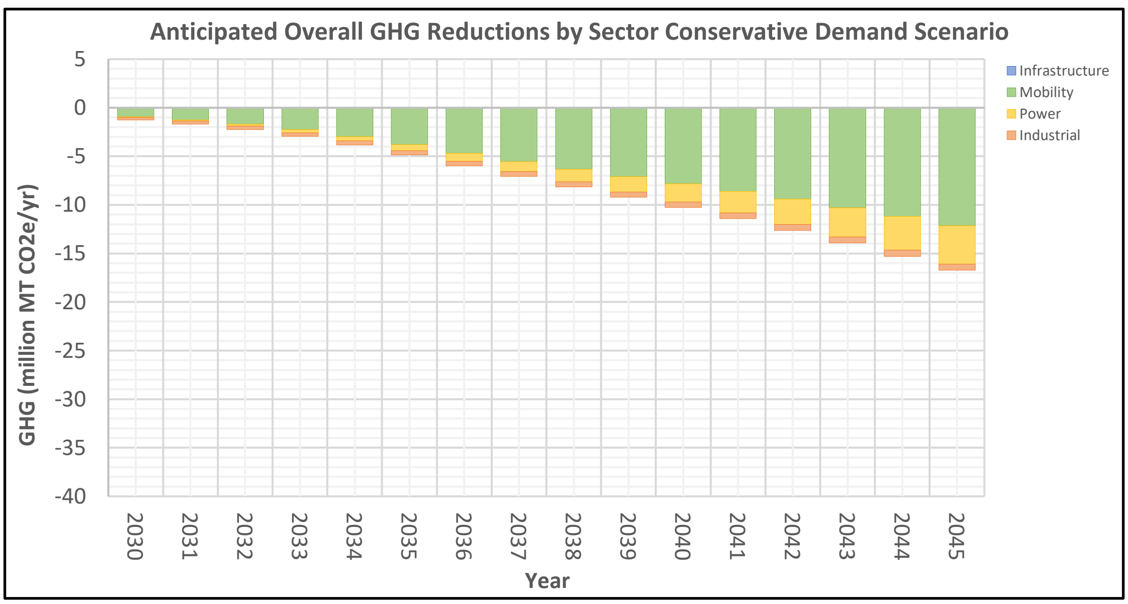

Figure 5A. Anticipated Overall GHG Reductions by Sector - Conservative Demand Scenario

Figure 5A depicts the anticipated GHG reductions by sector in the conservative demand scenario. It shows that the Mobility sector accounts for the largest share of reductions, making up 72.5% of the total decrease in emissions. This sector's change is depicted as the largest portion, underscoring the impact of replacing traditional vehicle fuels with hydrogen fuel cells. Power generation and industrial sectors follow, illustrating the transition from fossil fuels to clean hydrogen and their respective contributions to the total reduction in emissions. The clear delineation of contributions across sectors highlights the critical importance of sector-specific strategies in achieving GHG emission targets.

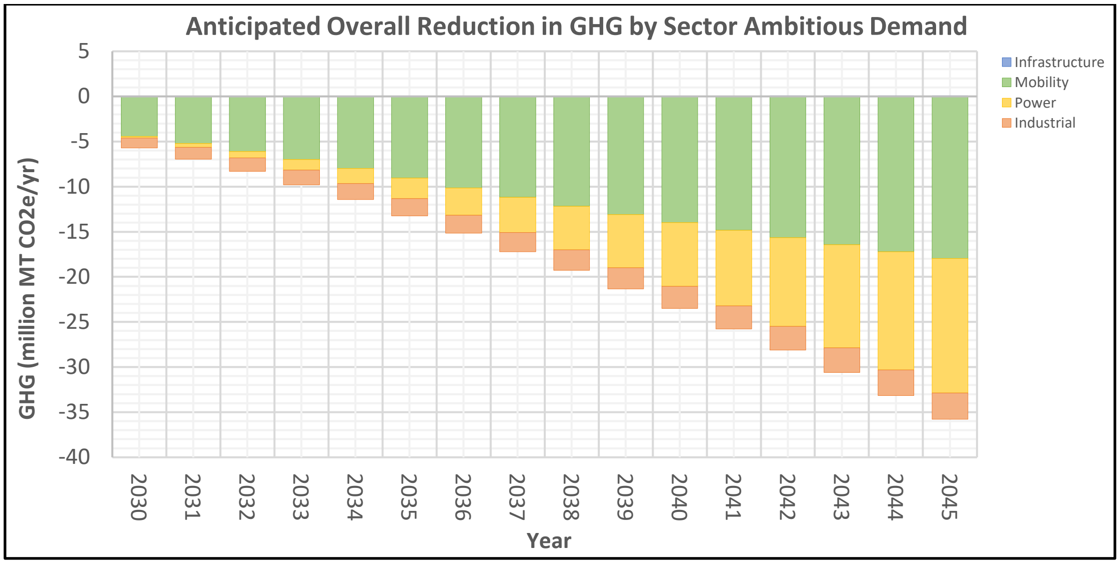

Figure 5B. Anticipated Overall GHG Reductions by Sector - Ambitious Demand Scenario

In Figure 5B, the reductions in GHG emissions are presented under the ambitious demand scenario, indicating a faster approach to hydrogen integration. The scale of reductions is more substantial compared to the conservative demand scenario, with Mobility again constituting the bulk of the decrease but at a relatively lower percentage, suggesting a broader distribution of clean hydrogen usage across sectors. The Power sector's contribution is markedly increased, consistent with the larger role of clean hydrogen in high-demand futures. The Industrial sector, while smaller in percentage, also shows a decrease in emissions, reaffirming the potential of hydrogen to transform even the most challenging sectors. The collective representation of sectors in this figure reflects a dynamic shift towards a low-carbon economy with substantial GHG emissions reductions.

7 ASSUMPTIONS AND RESULTS FOR ANGELES LINK THROUGHPUT SCENARIOS

Emission calculation results including assumptions are provided for the following categories that were evaluated for the Angeles Link Throughput Scenarios. The projected GHG emissions reductions totals for each end-user subsector were summed to estimate totals for each sector; and then totals for each sector were summed and added to anticipated GHG emissions associated with new infrastructure to estimate the overall annual GHG emissions reductions based upon the Angeles Link Throughput Scenarios and anticipated for each year 2030 to 2045.

- Infrastructure: production, storage, and transmission of hydrogen to end-users
- End-Users: mobility, power generation, and hard-to-electrify industrial sectors projected to use hydrogen

This document provides the results of the GHG study. Detailed emission calculations based on the Angeles Link Throughput Scenarios are provided in Appendix C.

7.1 INFRASTRUCTURE

The results for potential GHG emission increases associated with the new Angeles Link-related infrastructure based on the data for 2045 project that such are up to 0.17% and 0.25% the magnitude of end-user reductions for Angeles Link Low and High Throughput Scenarios, respectively.

7.1.1 Hydrogen Production (Third-Party)

Three equipment options were evaluated for hydrogen production to meet the definition of clean renewable hydrogen:

1. Electrolyzers powered by renewable electricity: zero GHG
2. Biomass gasification: zero GHG[92]
3. RNG SMR with hydrogen as combustion fuel for heater: Could include some GHG emissions in the form of trace amounts of N_2O.

Multiple scenarios were evaluated with varying contributions to total production by each of the three types of equipment listed above to estimate the range of potential GHG emissions. The range extends from zero GHG associated with 100% electrolysis and 100% biomass gasification scenarios to the potential for some GHG emissions for the 100% RNG SMR scenario. GHG emission estimates can be refined once further project details are developed, including assumptions regarding anticipated production processes and proportions of hydrogen intended to be produced from different methods have been

[92] The Study only considered biomass gasification that uses a process that is carbon neutral.

identified. Results are provided for the Low and High Throughout Scenarios in Table 10. Detailed information is available in the excel spreadsheets found in Appendix C.

Table 10
Potential Direct GHG Emissions from Hydrogen Production Based on Angeles Link Throughput Scenarios

Angeles Link Throughput Scenario	Emissions (MT CO2e/year)				
	2030	2035	2040	2045	Production Scenario
Low Min	0	0	0	0	100% Electrolysis or 100% Biomass Gasification
Low Max	301	1,194	2,564	4,361	100% SMR (Max Case)
High Min	0	0	0	0	100% Electrolysis or 100% Biomass Gasification
High Max	2,396	4,962	8,463	12,701	100% SMR (Max Case)

Table 10 depicts the estimated GHG emissions from hydrogen production related to the throughput scenarios. For both low and high throughput scenarios, the minimum potential emissions are zero, representing methods like electrolysis and biomass gasification. In contrast, the maximum emissions under the low throughput scenario rise from about 301 MT CO2e in 2030 to 4,361 MT CO2e by 2045 for 100% SMR. Similarly, under the high throughput scenario, maximum emissions increase from 2,396 MT CO2e to 12,701 MT CO2e within the same timeframe for the 100% SMR option.

7.1.2 Storage (Third-Party) and Transmission

Compressors will be needed for storage and transmission of hydrogen. Three options for types of compressors were evaluated.

1. Electric motor driven compressors (zero GHG emissions)
2. Clean renewable hydrogen fueled reciprocating engine driven compressors (some GHG emissions)
3. Clean renewable hydrogen fueled turbine driven compressors (some GHG emissions)

Emissions of GHG (as N_2O) from hydrogen fueled reciprocating engine driven compressors and from turbine driven compressors were conservatively estimated using equation 1.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

The first equation (equation 1) multiplies the quantity of clean renewable hydrogen by the N_2O emission factor assumed in this Study for hydrogen. The emissions for N_2O are then multiplied by the GWP as shown in Table 1 to determine GHG emissions in units of CO2e.

Two storage pressure scenarios were evaluated - a low pressure scenario at 290 psi and a high-pressure scenario at 2,900 psi. A total transmission distance of 450 miles was evaluated. These assumptions were made for this Study and additional information is available in the parallel Pipeline Sizing and Routing Study. GHG emission estimates can be refined once the types, sizes, and quantities of compressors have been further developed. Additionally, development of assumptions regarding aboveground and underground storage volumes and pressures will support refinement of potential GHG emission estimates for third-party storage. Results for storage and transmission for GHG emissions are provided in Tables 11 and 12, respectively. Detailed information is available in the excel spreadsheets found in Appendix C.

Table 11
Potential Direct GHG Emissions from Hydrogen Storage Based on Angeles Link Throughput Scenarios

Angeles Link Throughput Scenario	Emissions (MT CO_2e/yr)				Scenario	
	2030	2035	2040	2045	Storage Pressure	Power Source
Low Min	0	0	0	0	NA	Renewable Electricity
Low Max	64	253	543	923	2,900 psi	Turbine Engine
High Min	0	0	0	0	NA	Renewable Electricity
High Max	507	1,050	1,791	2,688	2,900 psi	Turbine Engine

Table 11 outlines the potential GHG emissions from hydrogen storage under different Angeles Link throughput scenarios. The table presents a range from zero emissions, which would occur when using renewable electricity for all storage pressures, to a maximum emission scenario where hydrogen is stored at high pressure (2,900 psi) using turbine engines. The maximum emissions for the low throughput scenario grow from about 64 MT CO2e in 2030 to 923 MT CO_2e by 2045. In the high throughput scenario, the projected maximum emissions are greater, starting at 507 MT CO2e in 2030 and reaching approximately 2,688 MT CO2e by 2045.

Table 12
Potential Direct GHG Emissions from Transmission Based on Angeles Link Throughput Scenarios

Angeles Link Throughput Scenario	Emissions (MT CO_2e/yr)				Scenario	
	2030	2035	2040	2045	Transmission Distance	Power Source
Low Min	0	0	0	0	NA	Renewable Electricity
Low Max	163	649	1,394	2,371	450 miles	NA
High Min	0	0	0	0	NA	Renewable Electricity
High Max	1,302	2,697	4,600	6,903	450 miles	NA

Table 12 presents the anticipated GHG emissions from the transmission of hydrogen, varying by Angeles Link throughput scenarios over a set distance of 450 miles. Similar to the hydrogen production and storage tables, the emissions for transmission are presented as ranging from zero—using renewable electricity—to a maximum calculated based on undefined sources (NA). For the low throughput scenario, maximum emissions estimates increase from about 163 MT CO2e in 2030 to 2,371 MT CO2e by 2045. The high throughput scenario starts with 1,302 MT CO2e in 2030 and climbs to 6,903 MT CO2e by 2045. These figures provide an insight into the anticipated GHG emissions associated with hydrogen transmission. Detailed information is available in the excel spreadsheets found in Appendix C.

7.2 END USERS

Consistent with the Decision, Angeles Link is intended to transport clean renewable hydrogen to the end users. The focus of the GHG emissions study was on three sectors of end-users: mobility, power generation, and hard to electrify industrial. The Throughput Scenarios estimated quantities of diesel and gasoline that may be displaced by hydrogen fuel cells in the mobility sector. The Throughput Scenarios also estimated quantities of natural gas that may be displaced by hydrogen fuel in the power generation and hard to electrify industrial sectors. The potential for leakage at end users is acknowledged but was not quantified as part of this Study.

7.2.1 Mobility

Summary of results for the anticipated GHG emission reductions associated with the Mobility sector based on the Low and High Throughput Scenarios for Angeles Link in 2045 are the following.

- Mobility is the largest end-user sector of GHG reductions at 72.5% and 50.3% of overall reductions for Low and High Throughput Scenarios, respectively. These reductions are due to hydrogen fuel cell substitution for fossil fuels nearly eliminating GHG emissions. The potential for leakage such as during refueling of vehicles is acknowledged but was not quantified as part of this study.
    - Low Throughput Scenario
        - On-Road Vehicles account for 93.9% of Mobility GHG reductions
            - Heavy Duty Vehicles are 58.5% of Mobility GHG reductions
        - Off-Road Vehicles account for 6.1% of Mobility GHG reductions
    - High Throughput Scenario
        - On-Road Vehicles account for 94.6% of Mobility GHG reductions
            - Heavy Duty Vehicles are 62.8% of Mobility GHG reductions
        - Off-Road Vehicles account for 4.4% of Mobility GHG reductions

On-Road Vehicles, Heavy Duty Vehicles, and Off-Road Vehicles have distinct roles in the mobility sector's GHG reductions, with on-road vehicles leading in both scenarios due to their higher contributions to emissions. The assumptions associated with the Mobility sector are primarily that diesel and gasoline fuel will be displaced, and vehicles would convert to hydrogen fuel cells with zero emissions. Emission factors for GHG from displaced diesel and gasoline fuel were developed using EMFAC data. The EMFAC model contains sufficient data to estimate CO_2, CH_4, and N_2O emissions for on-road mobile sources, and CO_2 emissions for off-road mobile sources. The EMFAC model does not include CH_4 and N_2O emissions data for off-road mobile vehicles. Research was conducted to estimate the most representative CH_4 and N_2O emissions factors for off-road mobile sources. Fuel consumption was weighted by subcategory of vehicle types. The same two equations previously mentioned were used to conduct the GHG calculations, and the hydrogen emissions value in equation 2 is zero.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

The first equation (equation 1) multiplies the quantity of fuel by the GHG emission factor specific to the fuel for each GHG pollutant. These pollutants are CO_2, CH_4, and N_2O for combustion of fossil fuels and N_2O for combustion of hydrogen. Each GHG has a specific fuel dependent emission factor and a unique GWP as shown in Table 1. The emissions for each of CO_2, CH_4, and N_2O are multiplied by their respective GWP and then summed to obtain the total GHG emissions in units of CO2e.

The second equation (equation 2) calculates the GHG emission reductions in CO2e by subtracting the GHG emissions for hydrogen (either for N_2O from combustion of hydrogen or zero for hydrogen fuel cells) from the GHG emissions for combustion of displaced fossil fuels. The GHG emissions for combustion of hydrogen and for combustion of fossil fuels are both derived from equation 1.

The total emissions were calculated by summing totals for each equipment type and are shown in Table 13. Figures 6A and 6B provide graphs for the Low and High Throughput Scenarios, respectively below. The GHG reductions estimated for the Low Throughput Scenario in 2045 are equivalent to 775,000 gasoline passenger vehicles driven for one year per EPA Calculator. The GHG reductions estimated for the High Throughput Scenario in 2045 are equivalent to about 1,085,300 gasoline passenger vehicles driven for one year per EPA Calculator. Detailed information is available in the excel spreadsheets found in Appendix C.

Table 13
Mobility Direct GHG Emission Reductions Associated with Angeles Link Throughput Scenarios
(million MT CO_2e/yr)

Scenario	2030	2035	2040	2045
Low	0.25	1.02	2.10	3.26
High	1.12	2.29	3.54	4.56

Table 13 presents the GHG emission reductions within the mobility sector as a result of the Angeles Link Throughput Scenarios from 2030 to 2045. In the Low Throughput Scenario, the reductions begin at 0.25 million MT CO2e in 2030 and increase over the years to reach 3.26 million MT CO2e by 2045. This indicates a steady increase in the use of hydrogen as a fuel, replacing traditional carbon-intensive fuels in vehicles. The High Throughput Scenario predicts reductions starting with 1.12 million MT CO2e in reductions in 2030 and expanding to 4.56 million MT CO2e by 2045. These substantial figures suggest aggressive displacement of fossil fuels with hydrogen fuel cells, reflecting the potential for large GHG reductions in the transportation sector with the adoption of clean renewable hydrogen technology.

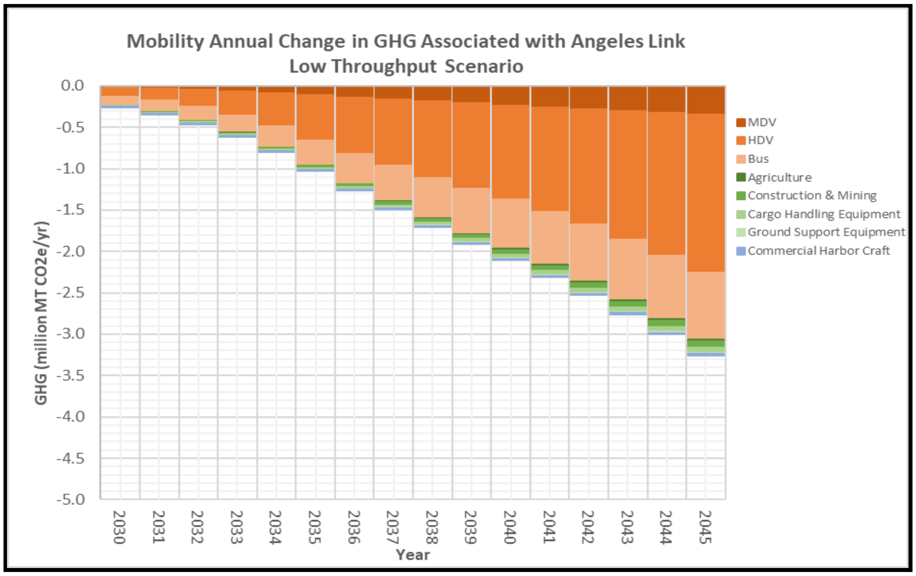

Figure 6A. Mobility Annual Change in GHG for Angeles Link - Low Throughput Scenario

Figure 6A illustrates the projected yearly reductions in GHG emissions from various subsectors of mobility, such as Medium Duty Vehicles (MDV), Heavy Duty Vehicles (HDV), Buses, and Agriculture from 2030 to 2045. The dominant segments, representing MDVs, indicate that this subsector is expected to contribute the largest share to GHG reductions, particularly as we approach 2045. The figure reflects an increased rate of emission reductions over time, aligning with the anticipated broader adoption of clean hydrogen fuel cells in these vehicle categories.

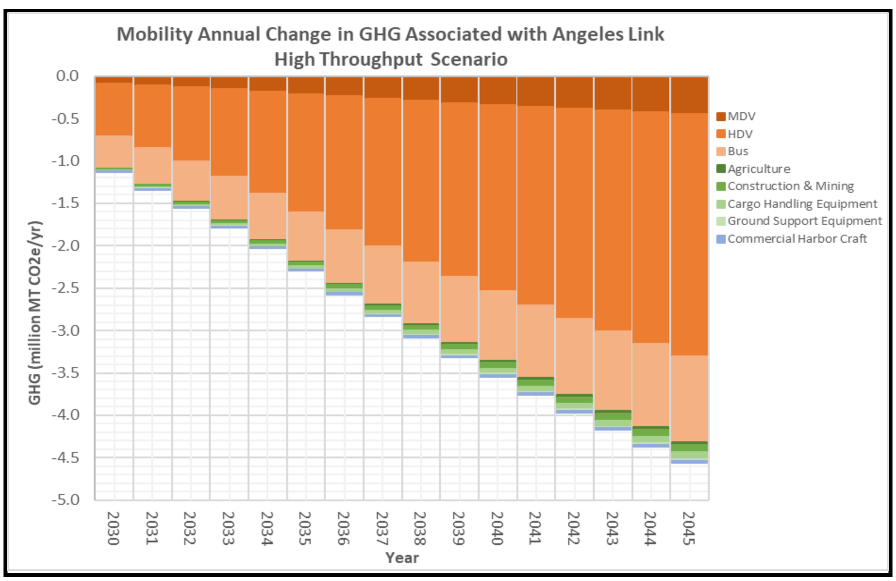

Figure 6B. Mobility Annual Change in GHG for Angeles Link - High Throughput Scenario

In Figure 6B, we see a similar trend of GHG reduction across the mobility sector, albeit with smaller absolute numbers compared to the high throughput scenario. This chart shows that even with a more conservative adoption of hydrogen fuel cell technology, emission reductions are projected, especially from MDVs and buses, which make up the majority of the reductions. The gradual increase in the size of the colored segments over the years suggests the growing impact of transitioning to hydrogen-powered transportation within the lower demand framework. The graph indicates that by 2045, the shift to hydrogen in mobility could yield emission reductions comparable to taking a large number of traditional vehicles off the road.

7.2.2 Power Generation

Results for anticipated GHG emissions reductions based on the Angeles Link Low and High Throughout Scenarios in 2045 are that the Power Generation sector accounts for 24% and 42% of overall GHG emissions reductions, respectively. The assumptions that were applied to develop the GHG emissions calculations include that hydrogen will displace natural gas as a fuel with increasing amounts over time (from 2030 to 2045). The potential for leakage at power generation end users such as when hydrogen is transferred from onsite storage or pipelines to onsite hydrogen combustion equipment is acknowledged but was not quantified as part of this study.

This Study is focused on estimated GHG reductions anticipated to be associated with use of hydrogen as a fuel in the power generation sector relating to the development of Angeles Link. At the time of this study report, there is not sufficient detailed project information to estimate the quantity of electricity that is anticipated to be produced using 100% clean renewable hydrogen as a fuel to electric generating equipment as the future annual average utilization or the capacity factor for thermal power plant generation is not known. For each emission source type identified, calculations to estimate GHG emissions were prepared using the same two equations previously mentioned.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

The first equation (equation 1) multiplies the quantity of fuel by the GHG emission factor specific to the fuel for each GHG pollutant. These pollutants are CO_2, CH_4, and N_2O for combustion of fossil fuels and N_2O for combustion of hydrogen. Each GHG has a specific fuel dependent emission factor and a unique GWP as shown in Table 1. The emissions for each of CO2, CH_4, and N_2O are multiplied by their respective GWP and then summed to obtain the total GHG emissions in units of CO2e.

The second equation (equation 2) calculates the GHG emission reductions in CO2e by subtracting the GHG emissions for hydrogen (either for N_2O from combustion of hydrogen or zero for hydrogen fuel cells) from the GHG emissions for combustion of displaced fossil fuels. The GHG emissions for combustion of hydrogen and for combustion of fossil fuels are both derived from equation 1.

As previously mentioned, for combustion of clean renewable hydrogen with GHG comprised entirely of N_2O, since the GWP 20 and GWP 100 for N_2O are both 273, the expected impacts in both short term and long term should be similar.

The total emissions were calculated by summing totals for each equipment type and are shown in Table 14. Figures 7A and 7B provide graphs for the Angeles Link Low and High Throughput Scenarios, respectively below. The GHG reductions estimated for the Low Throughput Scenario in 2045 are equivalent to 206,101 homes' electricity use for one year per EPA Calculator. The GHG reductions estimated for the High Throughput Scenario in 2045 are equivalent to 735,486 homes' electricity use for one year per EPA Calculator. Detailed information is available in the excel spreadsheets found in Appendix C.

Table 14
Power Generation GHG Combustion Emission Reductions Associated with Angeles Link Throughput Scenarios (million MT CO2e/yr)

Throughput Scenario	2030	2035	2040	2045
Low	0.012	0.16	0.50	1.06
High	0.041	0.58	1.79	3.78

Table 14 offers a detailed account of the projected GHG emission reductions within the power generation sector under the Angeles Link Throughput Scenarios. For the Low Throughput Scenario, the table shows a ten-fold increase in GHG reductions over time, starting at 0.12 million MT CO2e in 2030 and increasing to 1.06 million MT CO2e by 2045. In the High Throughput Scenario, the GHG emission reductions begin at 0.41 million MT CO2e in 2030 and ramping up to 3.78 million MT CO2e by 2045.

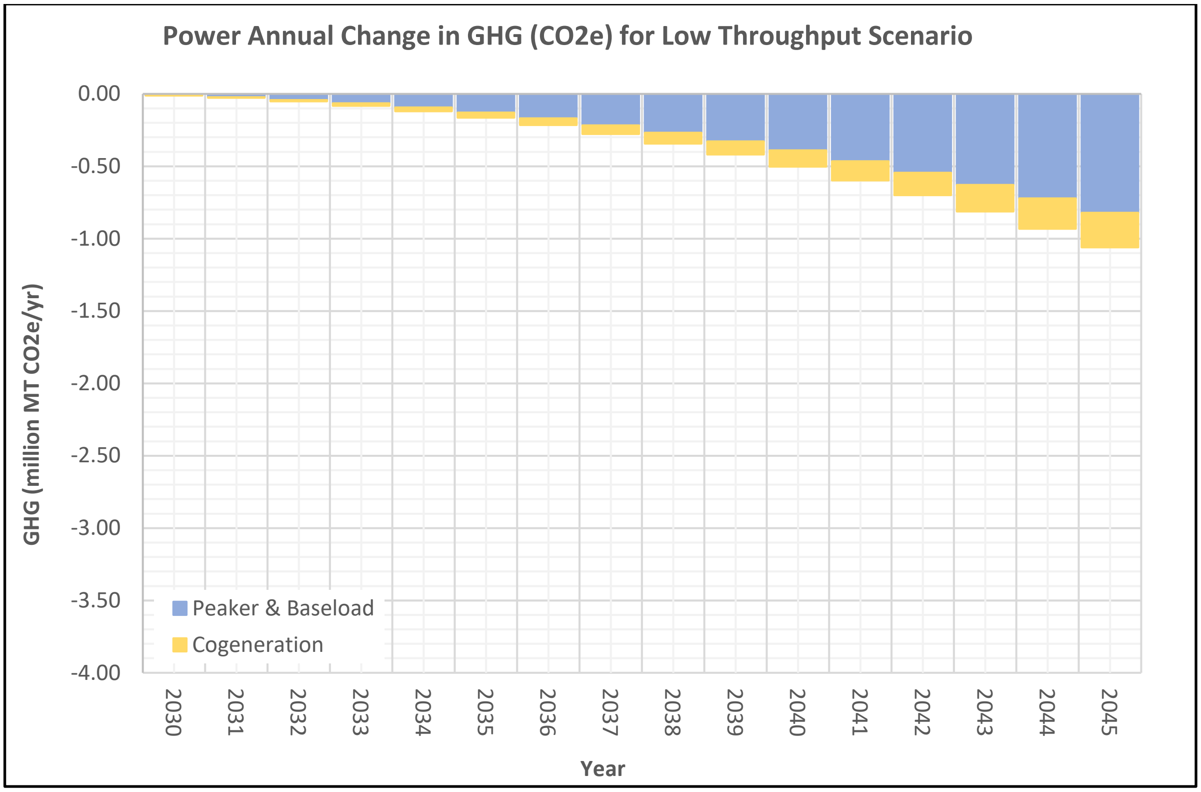

Figure 7A. Power Annual Change in GHG for Angeles Link - Low Throughput Scenario

Figure 7A displays the expected annual reductions in GHG emissions for the Power sector from 2030 to 2045. The stacked bars depict a year-over-year decrease in GHG emissions. This visualization highlights the large-scale impact of transitioning to hydrogen-fueled power generation, with cogeneration units also showing notable reductions. The clear decline in emissions over the years signifies the increasing role of clean hydrogen in achieving emissions targets within the Power sector.

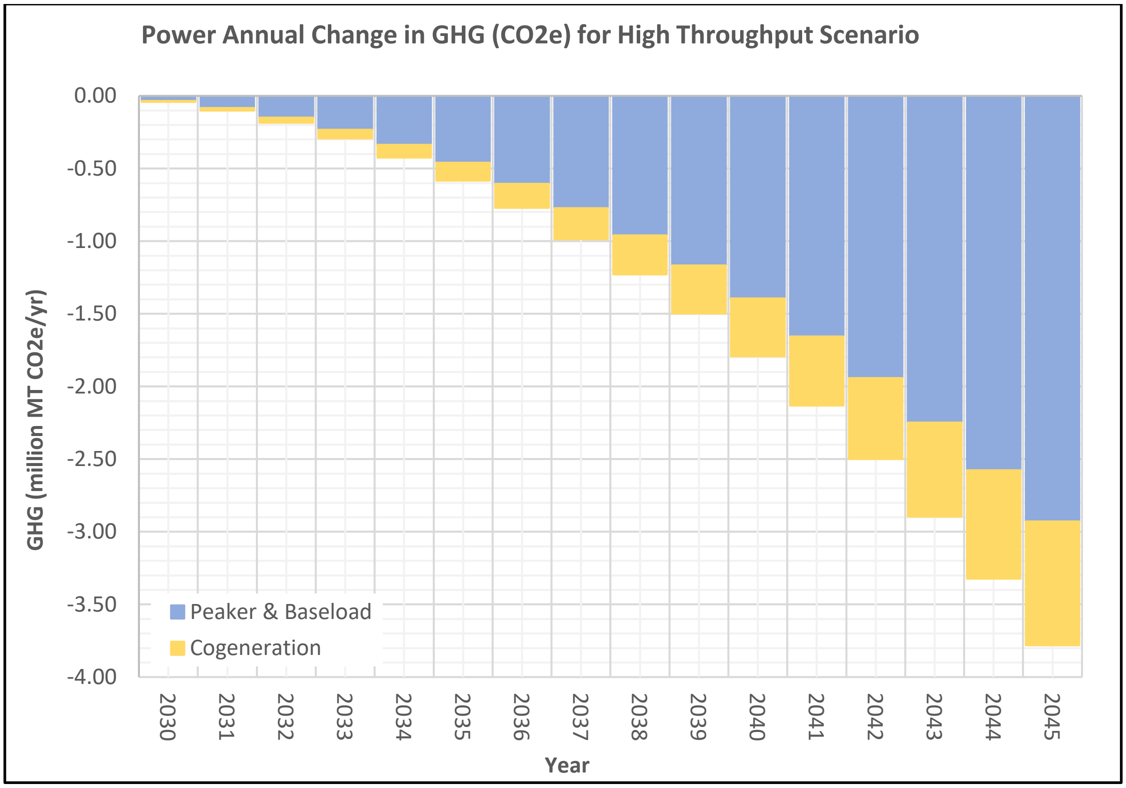

Figure 7B. Power Annual Change in GHG for Angeles Link - High Throughput Scenario

In Figure 7B, the estimated GHG reductions are showcased for the power sector with a less aggressive but steady transition towards hydrogen. The peaker baseload and cogeneration are again represented, showing a consistent trend of decreasing emissions over time. The color coding of the bars clearly shows the contributions from each type of generation unit to the overall reduction, with a trajectory pointing towards an environmental benefit by 2045. The chart underlines the potential of hydrogen to substantially lower GHG emissions even with lower adoption rates, indicating the effectiveness of hydrogen as a clean alternative to fossil fuels in Power generation.

7.2.3 Hard to Electrify Industrial

The results for the anticipated GHG emissions reductions associated with the Industrial sector based on the Angeles Link Low and High Throughput Scenario data in 2045 are that the Industrial sector accounts for 4% and 8% of overall GHG emissions reductions, respectively. The assumptions that were applied to develop the GHG emissions calculations include that hydrogen will displace natural gas as a fuel with increasing amounts over time (from 2030 to 2045). It should be noted that consistent with the Decision, Angeles Link is intended to transport clean renewable hydrogen, and any analysis of hydrogen blending refers strictly to “behind-the-meter” operations, not within SoCalGas control. This Study does not dictate if end users will blend hydrogen with natural gas and makes assumptions regarding adoption rates based on currently available information regarding equipment and the anticipated evolution of adoption over time. Since only 100% clean renewable hydrogen will be delivered, to estimate GHG reductions at end users, assumptions regarding hydrogen adoption rates were made as shown in Tables 2A and 2B. The estimated emissions are based on these assumptions.

The potential for leakage at hard to electrify industrial end users such as when hydrogen is transferred from onsite storage or distribution to onsite hydrogen combustion equipment is acknowledged but was not quantified as part of this study.

For each emission source type identified, calculations to estimate emissions were prepared using the same two equations previously mentioned.

*Fuel Throughput x Emissions Factor * GWP = GHG Emissions (equation 1)*

GHG Emission Reductions = Fossil Fuel GHG Emissions – Hydrogen GHG Emissions (equation 2)

The first equation (equation 1) multiplies the quantity of fuel by the GHG emission factor specific to the fuel for each GHG pollutant. These pollutants are CO_2, CH_4, and N_2O for combustion of fossil fuels and N_2O for combustion of hydrogen. Each GHG has a specific fuel dependent emission factor and a unique GWP as shown in Table 1. The emissions for each of CO_2, CH_4, and N_2O are multiplied by their respective GWP and then summed to obtain the total GHG emissions in units of CO2e.

The second equation (equation 2) calculates the GHG emission reductions in CO2e by subtracting the GHG emissions for hydrogen (either for N_2O from combustion of hydrogen or zero for hydrogen fuel cells) from the GHG emissions for combustion of displaced fossil fuels. The GHG emissions for combustion of hydrogen and for combustion of fossil fuels are both derived from equation 1.

As previously noted, for combustion of clean renewable hydrogen with GHG emissions comprised entirely of N_2O, since the GWP 20 and GWP 100 for N_2O are both 273, the expected impacts in both short term and long term should be similar.

Total emissions were calculated by summing totals for each equipment type and are shown in Table 15. Figures 8A and 8B provide graphs for the Angeles Link Low and High Throughput Scenarios, respectively below. The GHG emissions reductions predicted for the Low Throughput Scenario in 2045 are equivalent to about 35,500 homes’ electricity use for one year per EPA Calculator. The GHG emissions reductions predicted for the High Throughput Scenario in 2045 are equivalent to about 144,000 homes’ electricity use for one year per EPA Calculator. Detailed information is available in the excel spreadsheets found in Appendix C.

Table 15 Hard-to-Electrify Industrial GHG Combustion Emission Reductions Associated with Angeles Link Throughput Scenarios (million MT CO2e/yr)				
Throughput Scenario	**2030**	**2035**	**2040**	**2045**
Low	0.075	0.12	0.15	0.17
High	0.29	0.48	0.62	0.73

Table 15 quantifies the GHG emission reductions within the industrial sector influenced by the Angeles Link project under Low and High Throughput Scenarios. Starting in 2030, the Low Scenario estimates a reduction of 0.75 million MT CO2e, with a steady increase over time, reaching 0.18 million MT CO2e by 2045. The High Scenario projects more substantial reductions beginning at 0.29 million MT CO2e in 2030 and culminating at 0.73 million MT CO2e in 2045.

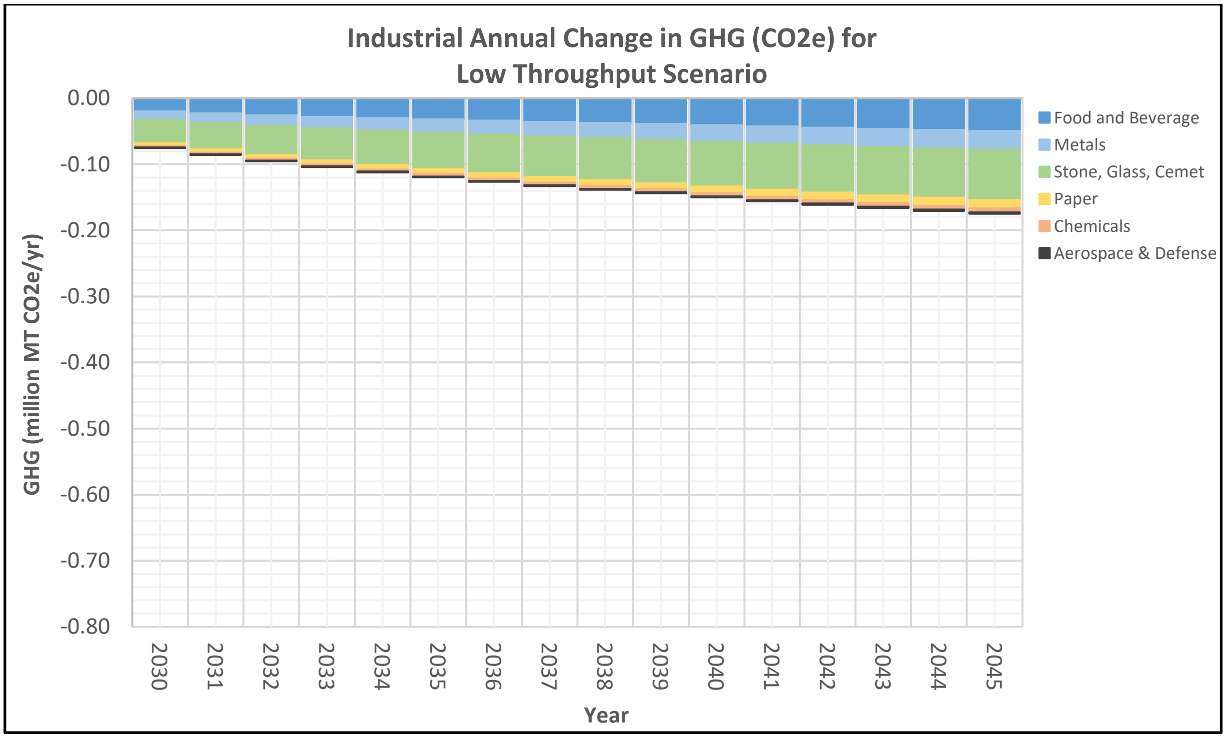

Figure 8A. Industrial Annual Change in GHG for Angeles Link - Low Throughput Scenario

Figure 8A depicts yearly reductions in GHG emissions across various industrial subsectors from 2030 to 2045. The largest decreases are seen in the food and beverage, and the stone/glass/cement sectors, shown by the deepest layers in the chart. As years progress, GHG emissions continue to fall, reflecting the increased adoption of hydrogen as a clean fuel alternative to natural gas, particularly in energy-intensive industries. By 2045, the emissions reduction is most pronounced, demonstrating the cumulative effect of the transition to hydrogen in high-demand scenarios.

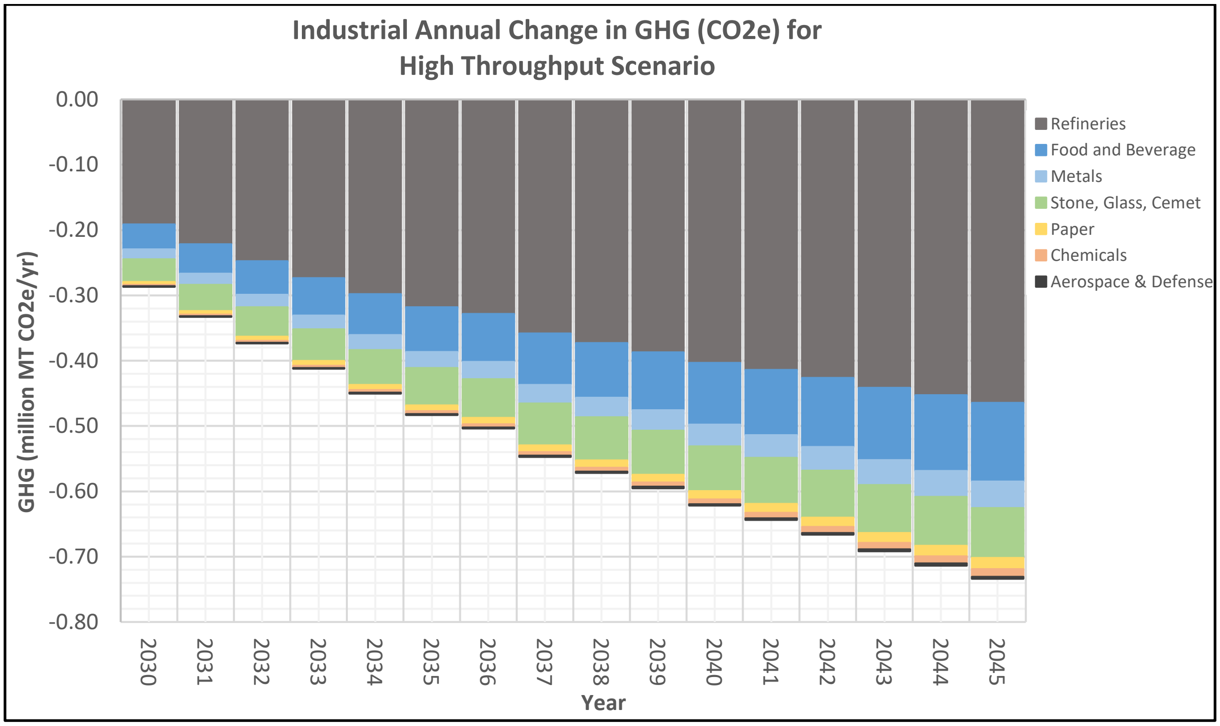

Figure 8B. Industrial Annual Change in GHG for Angeles Link - High Throughput Scenario

Figure 8B illustrates a conservative yet steady decline in GHG emissions within the industrial sector over the same period. In this scenario, refineries, food and beverage, and the stone/glass/cement sectors are also leading contributors to GHG reductions. Although the overall decrease in emissions is less aggressive than in the high throughput scenario, the continued year-over-year reductions indicate that even with a lower rate of hydrogen adoption, the industrial sector can achieve meaningful emissions reductions.

8 OVERALL RESULTS FOR ANGELES LINK THROUGHPUT SCENARIOS

Anticipated potential minor GHG emissions associated with new hydrogen infrastructure were added to the potential large anticipated GHG emissions reductions associated with potential end users of hydrogen as defined by the Demand Study. The total GHG emissions reductions projected for the Low Throughput Scenario in 2045 for end-users are equivalent to more than 874,000 homes' electricity use for one year per EPA Calculator. The total GHG emissions reductions predicted for the High Throughput Scenario in 2045 for end-users are equivalent to more than 1,760,000 homes' electricity use for one year per EPA Calculator. The results are provided in Table 16 and in Figures 9A and 9B below. Detailed information is available in the excel spreadsheets found in Appendix C.

In summary:

- Projected about 4.5 and 9 million metric tons of CO2e per year removed from SoCalGas territory geographic area by end users by 2045 in Angeles Link Low and High Throughput Scenarios.
- Projected new infrastructure GHG emissions are smaller than end-user reductions.
    - The highest potential infrastructure GHG emissions estimated are 0.17% and 0.25% the magnitude of overall end-user reductions for Angeles Link Low and High throughput scenarios, respectively, in 2045.
- Mobility GHG emissions are almost entirely eliminated with hydrogen substitution when fossil fuels are replaced with hydrogen fuel cells.
    - Mobility comprises 72.5% and 50.3% of overall GHG reductions for Angeles Link Low and High throughput scenarios, respectively, in 2045.
- Industrial and Power Generation GHG emissions are almost entirely eliminated when fossil fuels are replaced by hydrogen as a fuel in combustion equipment.
    - Power generation comprises 23.6% and 41.7% of overall GHG emissions reductions for Angeles Link Low and High throughput scenarios, respectively, in 2045.
    - Industrial comprises 3.9% and 8.1% of overall GHG emissions reductions for Angeles Link Low and High Throughput Scenarios, respectively, in 2045.

Table 16 **Annual Change in GHG Emissions for Angeles Link Throughput Scenarios (MT CO_2e/yr)**					
Category	**Through-put Scenario**	**2030**	**2035**	**2040**	**2045**
End-Users	Low	-338,689	-1,306,066	-2,755,894	-4,491,919
	Medium	-859,849	-2,473,978	-4,878,512	-7,767,819
	High	-1,453,026	-3,358,957	-5,957,517	-9,073,521
Infrastructure	Max - Low	528	2,096	4,501	7,655
	Max – Medium	1,318	4,159	8,608	14,456
	Max - High	4,206	8,709	14,854	22,292
	Min – Low	0	0	0	0
	Min - Medium	0	0	0	0
	Min - High	0	0	0	0
Total	Low	-338,161	-1,303,970	-2,751,393	-4,484,264
	Medium	-858,531	-2,469,812	-4,869,898	-7,753,363
	High	-1,448,820	-3,350,248	-5,942,663	-9,051,228

Table 16 reflects the changes in GHG emissions due to the Angeles Link project, which indicate a decline in emissions from end-users, particularly in the high throughput scenario with more than 9 million MT CO2e reduction by 2045. The overall GHG reductions shown conservatively apply the high-end (max value) of the infrastructure emission estimates that range from zero to 22,292 MT/year in 2045 for the high throughput scenario. These figures represent a shift toward cleaner energy and indicate a major potential for emissions reduction through clean renewable hydrogen adoption. Infrastructure-related emissions, while present, are minimal compared to the gains from end-user reductions.

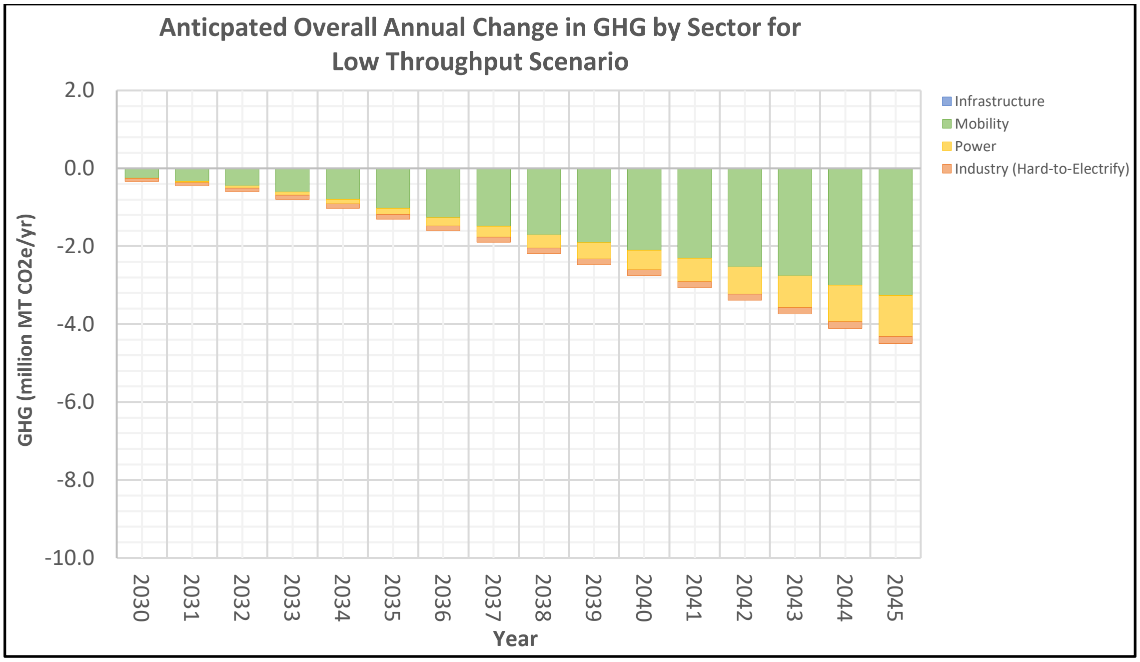

Figure 9A. Annual Change in GHG for Angeles Link - Low Throughput Scenario

In Figure 9A featuring the High Throughput Scenario, the stacked bar chart demonstrates a substantial decline in GHG emissions across all sectors, with the Mobility sector leading the reductions, followed by Power, and with Industry having the least, yet still notable GHG emission reductions. This visualizes a strategic and impactful cut in emissions through hydrogen adoption, especially in the Mobility sector.

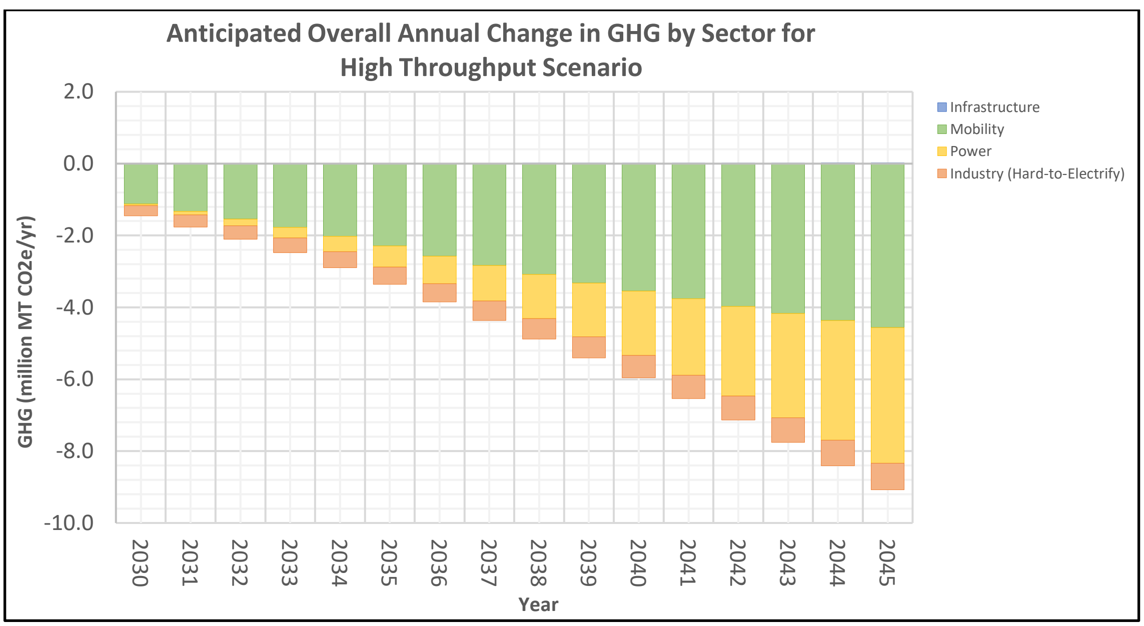

Figure 9B. Annual Change in GHG for Angeles Link - Low Throughput Scenario

In Figure 9B, for the Low Throughput Scenario, the trend is similar but with smaller reductions. Mobility still shows the most considerable decline, underscoring the role of cleaner transportation methods in reducing overall emissions. The consistent year-over-year decrease in all sectors reaffirms the value of even modest shifts toward clean renewable hydrogen for an environmental benefit.

9 HYDROGEN LEAKAGE IMPACT TO GHG REDUCTIONS

This Study broadens its scope to address concerns raised by stakeholders regarding hydrogen leakage, which represents a risk factor that could reduce a small percentage of the overall expected GHG reductions projected for Angeles Link. Addressing both direct and indirect GHG emissions, as raised by stakeholders, is essential for accurately assessing hydrogen's overall effectiveness as a means to achieve GHG reductions.

9.1 HYDROGEN AS INDIRECT GHG EMISSIONS

As outlined earlier in this document, this GHG report specifically estimates potential direct emissions of greenhouse gases such as CO_2, CH_4, and N_2O that can occur during fossil fuel or hydrogen combustion. It is important to note that hydrogen is not classified as a direct greenhouse gas by leading environmental organizations and governing bodies, including CARB, EPA, or the IPCC, due to the absence of globally recognized warming potentials. The research on global warming potential of hydrogen is evolving and there is not yet consensus among academic, regulatory, and climate organizations on the extent of the global warming impact of hydrogen. However, some analytical studies using atmospheric chemistry models estimate that hydrogen, if emitted to the atmosphere, will have an indirect global warming effect.[93]

Similar to methane, hydrogen's climate impacts are short-lived, with near-term climate change impacts from hydrogen expected to be 3 to 8 times higher than long-term impacts. Additionally, hydrogen's indirect impact on methane in the atmosphere results in a longer atmospheric lifetime for methane which could result in climate effects for about 10 years longer.[94]

Hydrogen's global warming impact may be caused by increasing methane residence time in the atmosphere, increasing production of tropospheric ozone (O_3) and altering stratospheric O_3, increasing the production of stratospheric water vapor, and changing the production of some aerosols.[95] These impacts are largely driven by the reaction of hydrogen and OH to form H_2O and H. OH is an atmospheric sink for methane and other atmospheric compounds.

Hydrogen combustion primarily results in the production of water vapor and very small amounts of N_2O may indirectly result from the nitrogen present in the combustion air at

[93] Bertagni, M.B., Pacala, S.W., Paulot, F. et al., 2022, Risk of the hydrogen economy for atmospheric methane. Nat Commun 13, 7706, https://doi.org/10.1038/s41467-022-35419-7

[94] Ocko, Ilissa and Hamburg, Steven, 2022, Climate consequences of hydrogen emissions. Atmospheric Chemistry and Physics, 2022. https://acp.copernicus.org/articles/22/9349/2022/

[95] Bertagni, M.B., et. al., 2022, Ibid.

specific temperatures. While water vapor is a greenhouse gas due to its ability to trap heat in the atmosphere, hydrogen combustion does not directly emit carbon-based greenhouse gases like CO_2 or CH_4, because hydrogen lacks carbon content. Therefore, the climate-related concerns associated with hydrogen primarily stem from its indirect effects rather than direct emissions. Key indirect effects of hydrogen combustion include:

- **Hydroxyl Radical Reduction:** Hydrogen can lower the concentration of hydroxyl radicals (OH) in the atmosphere. These radicals play a crucial role in breaking down methane, a greenhouse gas. When the levels of hydroxyl radicals are reduced, methane's atmospheric lifetime increases, which in turn amplifies its warming effect on the climate.
- **Ozone Formation:** When hydrogen is emitted, it can react with other compounds in the atmosphere under the influence of sunlight, leading to the formation of tropospheric ozone. This substance is not only a potent greenhouse gas but also a harmful air pollutant, contributing further to climate change.
- **Water Vapor Impact:** The oxidation of hydrogen leads to an increase in stratospheric water vapor, which can intensify the greenhouse effect. However, the impact of this increase is highly variable and complex to model accurately due to the intricate dynamics of the atmosphere.

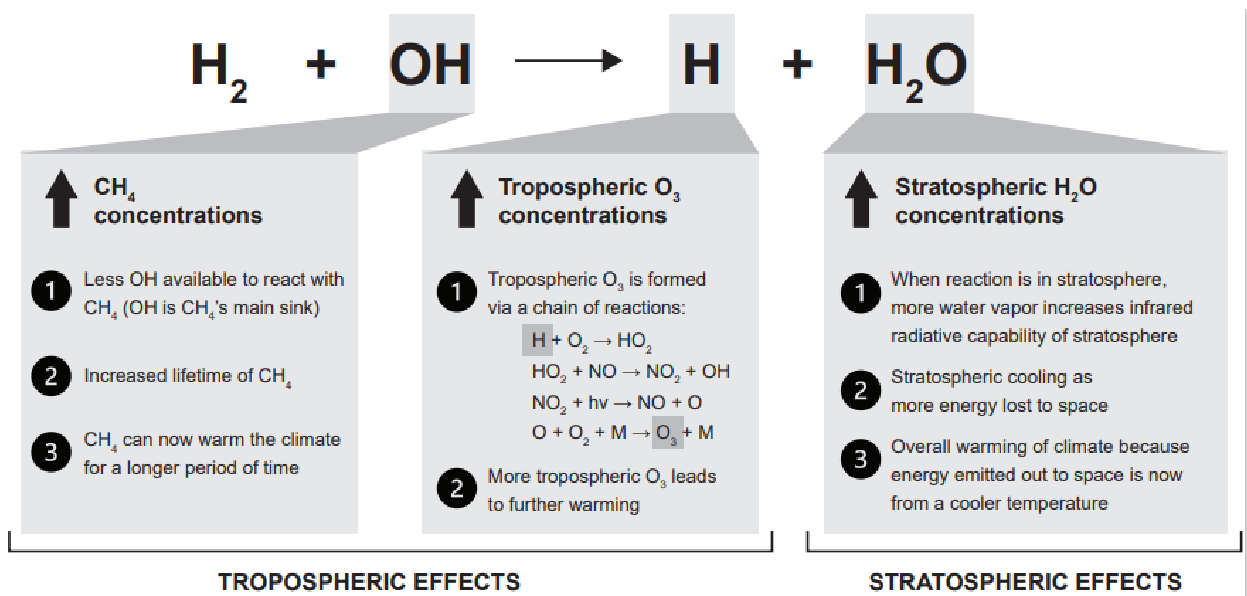

Figure 10. Estimated tropospheric and stratospheric effects of hydrogen

As shown in Figure 10,[96] scientific literature has identified potential climate impact considerations: 1) reduction in available hydroxyl radicals to react with methane, potentially prolonging methane's lifetime in the atmosphere; 2) increased tropospheric concentrations of ozone; and 3) increased concentrations of water vapor.

Research on hydrogen's global warming potential has evolved, with key findings consolidated in recent studies.[97] [98] Derwent's March 2023 article in the International Journal of Hydrogen Energy standardized earlier research, narrowing hydrogen's GWP to 7.1 to 9.3 over 100 years.[99] In contrast, Sand et al.'s June 2023 study, using five atmospheric chemistry models, proposed a GWP of 11.6 ± 2.8, focusing on emissions and potential infrastructure leakages.[100] This study highlighted the higher GWPs projected over shorter, 20-year horizons.[101] Notably, green hydrogen[102] could reduce GWPs by over 95% compared to fossil fuels over 20 to 100 years, based on leakage rates of 1 to 3%.[103] The primary uncertainties in developing a GWP for hydrogen continue to be the lack of data around the removal rate of atmospheric hydrogen by soil and potential future changes in atmospheric concentrations of other GHG such as methane.[104]

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[96] Ocko, Ilissa and Hamburg, Steven, 2022, Ibid.

[97] Derwent, R.G., D.S., Stevenson, S.R Utembe, M.E. Jenkin, A.H. Khan, & D.E. Shallcross, 2020, Global modelling studies of hydrogen and its isotopomers using STOCHEM-CRI: Likely radiative forcing consequences of a future hydrogen economy, International Journal of Hydrogen Energy 45(15): 9211-9221, https://doi.org/10.1016/j.ijhydene.2020.01.125

[98] Field, R.A. and Derwent, 2021, Global warming consequences of replacing natural gas with hydrogen in the domestic energy sectors of future low-carbon economies in the United Kingdom and the United States of America, International Journal of Hydrogen Energy 46(58): 30190-30203, https://doi.org/10.1016/j.ijhydene.2021.06.120

[99] Derwent, R.G. et al. 2020, Global modelling studies of hydrogen, Ibid

[100] Sand, M., R.B. Skeie, M. Sandstad, S. Krishnan, G. Myhre, H. Bryant, R. Derwent, D. Hauglustaine, F. Paulot, M. Prather and D. Stevenson, 2023, A multi-model assessment of the Global Warming Potential of hydrogen, Communications Earth & Environment V.4 Article number: 203, https://doi.org/10.1038/s43247-023-00857-8

[101] Paulot F., D. Paynter, V. Naik, S. Malyshev, R. Menzel, L. W. Horowitz, Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing, International Journal of Hydrogen Energy, 46, Issue 24, 2021, 13446-13460, ISSN 0360-3199, https://doi.org/10.1016/j.ijhydene.2021.01.088

[102] Green hydrogen defined as produced by electrolysis using renewable electricity.

[103] Hauglustaine, D., F. Paulot, W. Collins, R. Derwent, M. Sand and O. Boucher, 2022, Climate benefit of a future hydrogen economy, Communications Earth & Environment 3 (Article number 295), https://www.nature.com/articles/s43247-022-00626-z#Abs1

[104] Sun, Tianyi, et al. "Climate Impacts of Hydrogen and Methane Emissions Can Considerably Reduce the Climate Benefits across Key Hydrogen Use Cases and Time Scales." Environmental Science & Technology, American Chemical Society, Feb. 2024, https://doi.org/10.1021/acs.est.3c09030

Table 17 presents a range of GWP values for hydrogen from various studies. These values can be used for developing effective GHG emission rates for hydrogen leakage as CO_2e.

- GWP100 Range of Estimates: This column lists the GWP for a 100-year time horizon, which is the standard measure used to compare the impacts of different GHGs. The "+/-" values indicate the uncertainty or range in these estimates.
- GWP20 Range of Estimates: This column provides GWP values for a 20-year time horizon, which highlights the short-term climate impact of the gases. Not all studies provide a 20-year GWP.

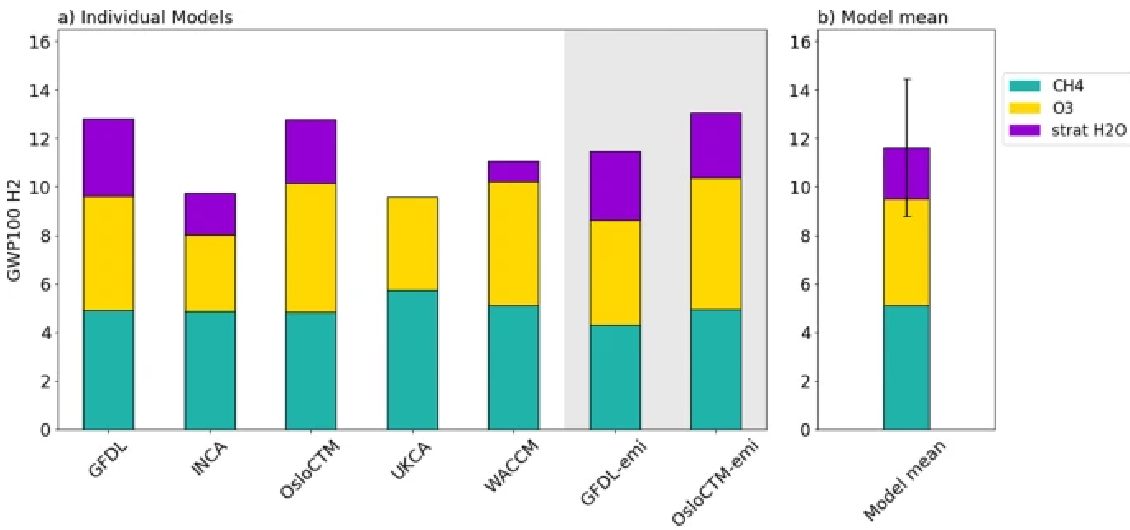
Table 17
Summary of GWP 20 and GWP 100 Estimates for Hydrogen

GWP100 Range of Estimates	GWP20 Range of Estimates	Date of Article	Article Authors
5 +/- 1	---	January 2020	R. G. Derwent, et al
3.3 +/- 1.4	---	August 2021	R.A. Field, R.G. Derwent
12.8 +/- 5.2	40.1 +/- 24.1	November 2022	D. Hauglustaine, et al
8 +/- 2	---	March 2023	R. G. Derwent
11.6 +/- 2.8	**37.3 +/- 15.1**	**June 2023**	**M. Sand et al**
11.5 +/- 6	34.8 +/- 19	October 2023	N. J. Warwick, et al

Understanding Multi-model Assessments of the Global Warming Potential of Hydrogen

To demonstrate that a number of data sources are typically evaluated to develop the values shown in Table 17 above, one row was selected (highlighted) and a deep-dive into the data was performed. For the row with the information from M. Sand et al. in June 2023[105], the authors evaluated the following information to develop the result in the study which estimates hydrogen's GWP100 to be 11.6, with a standard deviation of ±2.8 as shown in Table 17 above.

[105] Sand, M., et. al., 2023, Ibid.



GFDL Geophysical Fluid Dynamics Laboratory Model

The **GFDL** model operates with a resolution of approximately 100 km and 49 vertical levels. This model conducts experiments focused on meteorological aspects with a set of experiments that involve a control run with fixed H2 and CH4 concentrations, and several scenarios with different levels of increased H2 and CH4 concentrations. It uses its own meteorology for simulations which are conducted over a period of 20 years, focusing on atmospheric dynamics and climate processes.

The **GFDL-emi** is a variant with a specific focus on emission scenarios. It retains the same resolution and vertical levels as the GFDL model but explores the impacts of increased H2 emissions (200 Tg yr−1) along with a significant increase in CH4 concentrations. This model's experiments span 50 years, making it particularly valuable for studying long-term climatic effects of emission changes.

OSLOCTM Oslo Chemical Transport Model

OsloCTM features a resolution of roughly 2.25° x 2.25° with 60 vertical levels and conducts experiments under fixed H2 concentrations, along with increased H2 and CH4 scenarios. This model, using ECMWF OpenIFS 3 hr forecast data for meteorology, covers 20 years, **focusing** on the transport and transformation of chemical species in the atmosphere.

The **OsloCTM-emi** similarly maintains the same resolution and vertical levels and includes a scenario with increased H2 emissions (14 Tg yr−1). Its experiments also focus on the interaction between these emissions and atmospheric chemistry, using the same meteorological data and spanning 25 years.

INCA Interactive Chemistry and Aerosols

The **INCA** model utilizes a resolution of 2.5° × 1.25° with 39 vertical levels. It focuses on interactive chemistry, conducting experiments on present-day control scenarios with fixed H2 concentrations and simulations examining increases in H2 and CH4. INCA uses ECMWF OpenIFS 3 hr forecast data for meteorology and spans 20 years in simulation, emphasizing atmospheric chemistry and climate interactions.

UKCA United Kingdom Chemistry and Aerosols

The **UKCA** model operates with a resolution of 1.250° × 1.875° and 85 vertical levels. It performs experiments involving fixed H2 concentrations and a 10% increase in H2 and CH4 concentrations. The UKCA uses its own meteorology and runs simulations for 18 years, focusing on the study of atmospheric chemistry, aerosols, and their impact on climate.

WACCM Whole Atmosphere Community Climate Model

WACCM6 utilizes a resolution of 1.875° × 2.5° with 88 vertical levels and conducts experiments focusing on fixed H2 concentrations, and a 10% increase in both H2 and CH4 concentrations. It uses its own meteorological data and its simulation covers 20 years, integrating atmospheric chemistry with climate dynamics to model the whole atmosphere comprehensively.

The article "Climate Impacts of Hydrogen and Methane Emissions Can Considerably Reduce the Climate Benefits across Key Hydrogen Use Cases and Time Scales,"[106] published recently in Environmental Science & Technology, explores the complexities surrounding the assessment of climate impacts associated with hydrogen energy systems. The article discusses the global warming potential of hydrogen over shorter periods, driven by its indirect effects on methane, tropospheric ozone, and stratospheric water vapor. Two methods were used to quantify the relative climate impacts of the pathway for hydrogen as compared to that of the fossil fuels being replaced. The first is technology warming potential (TWP)[107] which compares the cumulative radiative forcing from continuous emissions for the two pathways considering 10, 20, 50, and 100 year timeframes. The second method is a comparison of the total emissions in CO2e using GWP for the 20 and 100 year time scales. The results indicate that green hydrogen pathways consistently reduce warming impacts from fossil fuel technologies by more than 60% for all time scales regardless of emission rate; and when emission rates are around 1%, the climate benefits jump to greater than 90%. The article also mentions that displacement of fossil fuels with hydrogen may reduce other co-emitted pollutants such as carbon monoxide (CO) and N_2O and volatile organic compounds (VOC) that are indirect GHGs that impact atmospheric chemistry. Finally, the article advocates for broader temporal analysis in climate impact assessments to capture both long-term and near-term effects and emphasizes the need for comprehensive assessments in hydrogen technology deployment to accurately evaluate its role in decarbonization strategies.

A detailed comparison of potential GHG emissions reductions of Angeles Link as compared to alternatives is beyond the scope of the Phase 1 feasibility analyses. The degree of analysis that could be reasonably completed at this feasibility stage to compare Angeles Link to other decarbonization pathways is included in the separate Alternatives Study, Cost Effectiveness Study, and Environmental Analysis.

The EDF blog post[108] "New research reaffirms hydrogen's impact on the climate, provides consensus," discusses that maintaining leakage of hydrogen at a minimum will depend on technological advancements related to direct measurement technologies that detect even small leaks. Minimal leakage will support the full advantages of the benefits of switching from fossil fuels to hydrogen.

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[106] Sun, Tianyi, et al., 2024, Ibid.

[107] Alvarez, R. A., Pacala, S. W., Winebrake, J. J., Chameides, W. L., and Hamburg, S. P., 2012, Greater focus needed on methane leakage from natural gas infrastructure. PNAS 109, 6435–6440. doi:10.1073/pnas.1202407109 https://www.pnas.org/doi/full/10.1073/pnas.1202407109?doi=10.1073%2Fpnas.1202407109

[108] Ocko. I and S. Hamburg, EDF Blog, July 19, 2023, New research reaffirms hydrogen's impact on the climate, provides consensus, https://blogs.edf.org/energyexchange/2023/07/19/new-research-reaffirms-hydrogens-impact-on-the-climate-provides-consensus/

The article "Climate Impacts of Hydrogen and Methane Emissions Can Considerably Reduce the Climate Benefits across Key Hydrogen Use Cases and Time Scales"[109] also highlights hydrogen's potential for leakage. Additionally, the article "Wide Range in Estimates of Hydrogen Emissions from Infrastructure,"[110] published in Frontiers and recommended by stakeholders, notes that emission rates can vary widely across different components of the value chain, such as transmission and distribution pipelines and storage systems, reflecting variability.

The recent National Petroleum Council (NPC) Report[111] mentions that initial research shows that hydrogen leakage across the global value chain could reduce the climate benefits of hydrogen with greater climatic impact in the near term. Specifically, the report indicates that recent studies suggest that every 1% of value chain hydrogen leakage would reduce the climate benefit by 1.2% to 4.2% in the near term (20 years) and 0.4% to 1.3% in the long-term (100 years). The Report also suggests that to completely understand the climate impacts of hydrogen leakage, highly sensitive hydrogen direct measurement tools that are not yet widely available are needed to quantify leakage at real world facilities.

The article "Global modeling of hydrogen using GFDL-AM4.1: Sensitivity of soil removal and radiative forcing," mentions that hydrogen is the second most abundant reactive trace gas in the atmosphere with a global mean concentration of approximately 530 ppbv. Source of hydrogen are approximately 30% from fossil fuel combustion and 55% from formaldehyde photolysis. Over 80% of hydrogen removal from the atmosphere is attributed to soil uptake.[112]

Collectively, these studies underscore the importance of a comprehensive temporal analysis of GHG emissions from hydrogen sources. They advocate for the integration of these findings into policy and commercial decisions to minimize hydrogen's climate footprint. This includes designing infrastructure to minimize the potential for leakage and GHG emissions, enhancing the accuracy of direct hydrogen measurements, and expanding estimation methodologies to include short-term and long-term impacts. The ongoing research efforts are crucial for refining our understanding of hydrogen's role in climate dynamics and developing robust strategies to manage its emissions in the context of global climate goals. Given the variability observed across these models, scholarly research stresses the critical need for stringent controls on hydrogen leakage during its production, storage, and transport processes to mitigate its unintended climatic effects. These implications are being carefully considered and opportunities to minimize the potential for leakage is discussed in the parallel Phase One Leakage Study.

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[109] Sun, Tianyi, et al., 2024, Ibid.
[110] Alvarez, R. A., et. al., 2012, Ibid.
[111] National Petroleum Council, April 23, 2024, Harnessing Hydrogen: A Key Element of the U.S. Energy Future https://harnessinghydrogen.npc.org/downloads.php
[112] Paulot F., et. al., 2021, Ibid.

9.2 HYDROGEN LEAKAGE IMPACT ON PROJECTED OVERALL GHG EMISSIONS REDUCTIONS

In response to stakeholder input, the parallel Final Leakage Study Report provides a high-level estimate of potential leakage scenarios for general hydrogen infrastructure and for anticipated Angeles Link infrastructure. This estimation remains preliminary as detailed design and engineering data is not yet available for either the general or Angeles Link infrastructure.

9.2.1 General Infrastructure

For general infrastructure, the Final Leakage Study Report compiles leakage data across various stages of hydrogen infrastructure—including production, compression, aboveground storage, underground storage, and transmission—utilizing 25 distinct data points. From this compilation, a median leakage rate of 0.24% and an average rate of 0.92% were identified. These rates were then applied to estimate potential leakage across low, medium, and high throughput scenarios for Angeles Link. This modeling provides an initial quantitative framework for understanding potential losses due to leakage, albeit with uncertainty pending further infrastructure specification and development.

The Final Leakage Study Report provides high-level estimates of potential hydrogen leakage. These estimates range from 1,200 MT/yr for the conservative demand scenario using the median leakage estimate to 13,800 MT/yr for the ambitious demand scenario using the average leakage estimate.

To estimate the potential impact to climate change, a conservative method is used involving the range of estimated volumetric leakage rates, as well as the range of effective GWP 100 estimated for hydrogen from existing scientific studies. For the purposes of this analysis, the estimated amounts are assumed to be equivalent to GHG emissions. This assumption allows for evaluating the potential environmental impact relative to the GHG emission reduction estimates discussed in this Final GHG Study Report.

The Global Warming Potentials for hydrogen are used to convert the amount of leaked hydrogen into CO_2e. The GWP values specifically for a 100-year horizon range from 1.9 to 18, according to different studies summarized in Table 17. Using these GWP values, the potential GHG impact from leakage is calculated as follows:

- Lower Estimate: 1,200 MT/yr of hydrogen x 1.9 (minimum GWP100) = 2,280 MT CO_2e/yr
- Upper Estimate: 13,800 MT/yr of hydrogen x 18 (maximum GWP100) = 248,400 MT CO_2e/yr

These GHG values, ranging from 2,280 MT CO_2e/yr to 248,400 MT CO_2e/yr, are then compared to the projected overall GHG reductions from the project (end-user reductions minus infrastructure emissions), which are estimated at 9.0 MMTPY (as shown in Table ES-1). This comparison shows that the impact of hydrogen leakage on the overall GHG reductions ranges from about 0.03% to 2.8%. In other words, this high-level methodology indicates that the impact from combustion associated with new hydrogen infrastructure to the predicted overall GHG emissions reductions would be very low (i.e., less than 3% for high throughput scenario).

9.2.2 Angeles Link Infrastructure

For Angeles Link infrastructure, the Final Leakage Study Report compiles leakage data for compression and transmission using 10 distinct data points. From this compilation, a median leakage rate of 0.17% and an average rate of 0.27% were identified. These rates were then applied to estimate potential leakage across low, medium, and high throughput scenarios for Angeles Link. This modeling provides an initial quantitative framework for understanding potential losses due to leakage, albeit with uncertainty pending further infrastructure specification and development.

The Final Leakage Study Report provides high-level estimates of potential hydrogen leakage. These estimates range from 850 MT/yr for the low throughput scenario using the median leakage estimate to 4,065 MT/yr for the high throughput scenario using the average leakage estimate.

To estimate the potential impact to climate change, a conservative method is used involving the range of estimated volumetric leakage rates, as well as the range of effective GWP 100 estimated for hydrogen from existing scientific studies. For the purpose of this analysis, the estimated amounts are assumed to be equivalent to GHG emissions. This assumption allows for evaluating the potential environmental impact relative to the GHG emission reduction estimates discussed in this Final GHG Study Report.

The Global Warming Potentials for hydrogen are used to convert the amount of leaked hydrogen into CO_2e. The GWP values specifically for a 100-year horizon range from 1.9 to 18, according to different studies summarized in Table 17. Using these GWP values, the potential GHG impact from leakage is calculated as follows:

- Lower Estimate: 850 MT/yr of hydrogen x 1.9 (minimum GWP100) = 1,615 MT CO_2e/yr
- Upper Estimate: 4,065 MT/yr of hydrogen x 18 (maximum GWP100) = 73,170 MT CO_2e/yr

These GHG values, ranging from 1,615 MT CO_2e/yr to 73,170 MT CO_2e/yr, are then compared to the projected overall GHG reductions from the project (end-user reductions minus infrastructure emissions), which are estimated at 9.0 MMTPY (as shown in Table ES-1). This comparison shows that the impact of hydrogen leakage on the overall GHG reductions ranges from about 0.02% to 0.8%. In other words, this high-level methodology indicates that the impact to the predicted overall GHG emissions reductions would be very low (i.e., less than 1% for high throughput scenario) when considering the addition of potential GHG emissions from the two leakage sectors evaluated in the parallel Final Leakage Study Report. Scientific studies indicate that maintaining value chain leakage rates below 1% will increase climate benefits of clean renewable hydrogen to greater than 90%.[113]

As the project progresses, further refinements in infrastructure design, better information from end users, and technological advancements will likely provide more accurate data. This can help in more precisely quantifying the leakage and its impact on overall GHG emissions reductions. Additionally, further studies and data will allow a better understanding of the atmospheric effects of hydrogen, particularly through advanced modeling techniques.

[113] Sun, Tianyi, et al., 2024, Ibid.

10 CONCLUSIONS

The direct GHG combustion emission estimates were developed from data from both the Demand Study Demand Scenarios and Angeles Link Throughput Scenarios and are set forth in this Study. The GHG combustion emission estimates associated with Angeles Link set forth in this study are informative for Phase 1. This study acknowledges that based on available scientific research preliminarily reviewed, there is uncertainty about the potential tropospheric and atmospheric effects associated with leakage of hydrogen. Preliminary high-level estimates indicate that the potential for hydrogen leakage from infrastructure as compared to the overall GHG reductions may range from 0.03% to 2.8%. In other words, this high-level methodology indicates that the impact to the predicted overall GHG emissions reductions (end users minus infrastructure emissions) would be very low (i.e., less than 3% for high throughput scenario). The design details of the hydrogen infrastructure and the Angeles Link infrastructure as the project is further refined, and more details regarding third-party production, third-party storage, and end users, may further inform future quantification estimates of GHG emissions.

10.1 UNCERTAINTY

Global warming potentials from IPCC's AR6 report were utilized to calculate CO2e emissions within this study. While these AR6 values are the most recently published global warming potentials from the IPCC, it is likely that these values will continue to evolve as new science is published. There is uncertainty in how these global warming potential values will change in the future.

10.1.1 Infrastructure

Design of the new hydrogen infrastructure and Angeles Link infrastructure will be refined in future project stages, and as a result assumptions related to transmission of hydrogen, in addition to assumptions regarding third-party production and third-party storage, formed the basis of the GHG emissions estimates. Details regarding the hydrogen production process, and proportions of hydrogen intended to be produced from different methods, if more than one method is used, would reduce the uncertainty with respect to the estimated hydrogen production emissions estimates.

The evaluation of GHG emissions associated with water conveyance or transportation of materials such as biomass to production sites or biomass feed preparation are not included in this Study as these details are beyond the scope of the Phase 1 feasibility studies. For example, this Study assumed that biomass would be procured ready for combustion and removal of moisture would not be required on-site.

Estimates were developed based on hypothetical electrolysis, biomass gasification, and biogas in steam methane reforming scenarios where the combustion equipment is fueled by hydrogen. Details regarding quantity of hydrogen storage, location, and types (aboveground versus underground) of storage will inform refinement of these initial estimates. Additionally, distances and locations (primarily underground, and aboveground where necessary) of transmission pipelines will also provide details to refine the emission estimates. More accurate GHG emissions estimates related to infrastructure can be developed as designs evolve and details emerge.

10.1.2 End Users

As discussed previously in this report, there is a lack of data and clarity around a N_2O emissions factor for hydrogen combustion and therefore uncertainty regarding associated GHG emissions. There are many variables that may affect N_2O formation including different operating modes, lean combustion, control options, and lower combustion temperatures possible with hydrogen. Using a conservative value in these calculations may result in higher N_2O estimates than actual N_2O emissions. The conservative value of 2 ppm was selected for the calculations within this study developed based on information in the literature and incorporation of a margin of safety of 2, by doubling of the value.

There is uncertainty within the correction factor calculation approach for converting a mass basis emissions limitation for natural gas combustion to a mass basis emissions limitation for hydrogen combustion. One source of uncertainty arises from the lack of information around how the fuel type (including blended fuels) impacts the oxygen levels in the exhaust gas, and how that impacts the required oxygen correction factors in the conversion from volumetric to mass emissions for hydrogen combustion exhaust.

There is uncertainty in the correction factor calculation approach for converting natural gas emissions to a representative value for hydrogen. A source of uncertainty in this approach is the lack of information about how oxygen levels in the exhaust gas may vary between natural gas, hydrogen, and blends. In this study, it was assumed that a particular type of equipment combusting natural gas, hydrogen, or a blend would have the same exhaust oxygen concentration for all fuels. In-practice combustion characteristics for hydrogen turbines may result in higher or lower exhaust oxygen concentrations than what is observed in natural gas equipment. If exhaust oxygen concentration is higher for hydrogen than natural gas, emissions from hydrogen will increase compared to what is forecasted in this study.

Fossil fuel displacement volumes for diesel and gasoline from the Demand Study were utilized in the calculations within this study directly as provided for the mobility sector. Natural gas displaced by hydrogen and hydrogen demand projections were provided by the Demand Study and utilized in the calculations within this study as provided for the power generation and hard to electrify industrial sectors.

On-road vehicle GHG emissions factors were developed from the current EMFAC model, and off-road vehicle CO_2 emissions factors were developed from the current EMFAC model, while emissions factors from EPA were utilized for off-road vehicle CH_4 and N_2O emissions. The EMFAC model may be updated in the future, and EPA routinely updates their recommended emissions factors for GHG inventories document. It is uncertain how these emissions factors might change in the future.

10.2 KEY FINDINGS

Key findings for GHG emission reductions based on the Demand Study Scenarios are as follows.

- Projected up to nearly 17 and 36 million metric tons of CO2e per year removed from SoCalGas geographic service territory by end users by 2045 in conservative and ambitious demand scenarios of the Demand Study, respectively. The reductions are equivalent to the annual GHG emissions of approximately 45 and 96 natural gas fueled power plants, respectively per EPA Calculator.
- Mobility sector comprises 72.5% and 50.3% of overall GHG reductions based on the conservative and ambitious demand scenarios, respectively, in the year of 2045. The GHG reductions estimated for the conservative and ambitious demand scenarios in 2045 are equivalent to removing approximately 2.7 million and 4.3 million gasoline passenger vehicles off the roads per year, respectively.[114]
- Power generation and hard to electrify industrial sectors comprise 41.7% and 8.1% of the overall GHG reductions, respectively, based on the ambitious demand scenario.
- Power generation and hard to electrify industrial sectors comprise 23.6% and 3.9% of overall GHG reductions, respectively, based on the conservative demand scenario in 2045.
- Infrastructure GHG emissions are projected to be negligible when compared to overall emission reductions, at 0.17% and 0.25% of end-user reductions for conservative and ambitious demand scenarios, respectively.

Key Findings: Angeles Link Throughput Scenarios

The key findings for GHG emission reductions for Angeles Link Throughput Scenarios, which accounts for emissions from not just transmission of hydrogen, but also from third-party production and storage as well as end users, are as follows and are discussed further herein.

[114] EPA, 2023a, GHG Calculator, Ibid.

- Projected about 4.5 and 9 MMT of CO_2e per year removed from SoCalGas's geographic territory by end users by 2045 in Angeles Link Low and High Throughput Scenarios, respectively.
- Mobility sector comprises 72.5% and 50.3% of overall GHG reductions based on the Angeles Link Low and High Throughput value scenarios, respectively, in 2045. The GHG reductions estimated for the Low and High Throughput Scenarios in 2045 are equivalent to 725,000 and more than 1 million gasoline passenger vehicles driven for one year, respectively.[115]
- Power generation and hard to electrify industrial sectors comprise 41.7% and 8.1% of overall GHG emission reductions, respectively, based on the High Throughput Scenario.
- Power generation and hard to electrify industrial sectors comprise 23.6% and 3.9% of overall GHG emission reductions, respectively, based on the Low Throughput Scenario in 2045.
- Infrastructure GHG emissions are projected to be negligible when compared to overall emission reductions at 0.17% and 0.25% of end-user reductions for Low and High Throughput Scenarios, respectively.

Additional details related to both the Demand Scenarios and Angeles Link Throughput Scenarios are provided below.

2030 Ambitious Demand Scenario: In 2030, the Ambitious Demand Scenario predicts a reduction of about 6 MMTPY of CO_2e due to hydrogen replacing fossil fuels. This reduction includes the emissions from producing, storing, and transmitting hydrogen. This amount of reduction is comparable to the energy use of about 740,000 homes for one year, according to the EPA's greenhouse gas (GHG) calculator.[116] In terms of specific contributions, Angeles Link is expected to meet about 25% of the projected hydrogen demand identified in the Demand Study. This means that the specific GHG reductions attributed to Angeles Link under the High Throughput Scenario are estimated at about 1.45 million MT CO_2e per year, which is equivalent to the energy use of approximately 189,000 homes for one year.

2045 Ambitious Demand Scenario: By 2045, the scenario estimates an overall reduction in CO_2e emissions of about 36 MMTPY, again due to the displacement of fossil fuels by hydrogen. These reductions are equivalent to the annual electricity usage of over 4.6 million homes, as per the EPA's calculator. Angeles Link is expected to supply the same percentage (about 25%) of the total hydrogen demand in SoCalGas service territory, as projected in the Ambitious Demand Scenario. As a result, the GHG emissions

[115] EPA, 2023a, GHG Calculator, Ibid.
[116] EPA, 2023a, GHG Calculator, Ibid.

reductions specifically associated with Angeles Link in the High Throughput Scenario for 2045 are estimated at about 9.0 million MT CO2e per year. This would correspond to the energy use of roughly 1.1 million homes for one year.

Mobility Sector: In the Mobility sector, the estimated CO2e reductions under the ambitious demand scenario are approximately 4.4 million MT in 2030 and about 18 million MT by 2045. The reductions by 2045 are equivalent to the emissions from around 4.3 million gasoline-powered passenger vehicles driven for a year. The sector accounts for between 50% to 83% of total GHG emissions reductions, varying by scenario and year. The largest contributors are heavy-duty vehicles (55.5% in 2030 and 62.8% in 2045), followed by buses (33.6% in 2030 and 22.0% in 2045), and medium-duty vehicles (7.3% in 2030 and 9.7% in 2045). Reductions from on-road vehicles outweigh those from off-road vehicles, mainly due to the higher displacement of fossil fuels. In the High Throughput Scenario, the reductions for 2030 are about 1.1 million MT CO2e per year, increasing to about 4.6 million MT CO2e by 2045. The 2045 reductions would be equivalent to the emissions from 1 million gasoline-powered vehicles driven for a year.

Power Generation Sector: In the Power Generation sector, it's projected that by 2030, there could be a reduction of 0.16 million MT of CO2e under the ambitious demand scenario, and by 2045, this could increase to about 15 million MT CO2e. Over 78% of these reductions are expected from the peaker and baseload plant sub-sectors in all years under this scenario with the remaining reductions attributable to the cogeneration sub-sector. By 2045, these reductions are equivalent to the yearly electricity consumption of approximately 1.9 million homes, according to the EPA's calculator. Under the High Throughput Scenario, the reductions are estimated at about 41,000 MT CO2e per year for 2030 and about 3.8 million MT CO2e per year by 2045. The reductions for 2045 under this scenario are comparable to the energy use of around 480,000 homes for one year.

Hard to Electrify Industrial Sectors: In the industrial sectors that are difficult to electrify, the estimated CO2e reductions under the ambitious demand scenario are around 1.1 million MT in 2030 and could rise to about 2.9 million MT by 2045. The 2045 reductions would be equal to the annual electricity usage of about 365,000 homes. In this scenario, refineries are the largest contributors, accounting for 65.5% of reductions in 2030, followed by the Food and Beverage sector (13.4%), Stone, Glass, and Cement (12.1%), and Metals (5.3%). Please note that refineries are only considered in the Ambitious Demand Scenario and refineries comprise about one-quarter of the Demand in this scenario. These percentages remain consistent from 2030 to 2045. In the High Throughput Scenario, the reductions are estimated at about 290,000 MT CO2e per year for 2030 and about 730,000 MT CO2e per year by 2045. The 2045 reductions equate to the energy use of around 96,000 homes for one year.

Hydrogen Infrastructure Emissions: Emissions associated with new hydrogen infrastructure are evaluated. The results of the conservative estimate prepared represent a small fraction of the emissions reductions achieved by end-users adopting hydrogen in the study region.

Specifically, in the Ambitious Demand Scenario:

- By 2030, emissions from the new hydrogen infrastructure are estimated at about 16,600 MT of CO2e per year. This accounts for 0.29% of total CO2e reductions expected from end-users based on hydrogen usage projections.
- By 2045, these emissions increase to about 87,900 MT per year of CO2e, which constitutes 0.25% of the total CO2e reductions from end-users. This accounts for 0.25% of total CO2e reductions expected from end-users based on hydrogen usage projections.

For Angeles Link, under the High Throughput Scenario:

- In 2030, the estimated emissions attributed to the new infrastructure are estimated to be around 4,200 MT of CO2e per year. This accounts for 0.29% of total CO2e reductions expected from end-users based on hydrogen usage projections.
- By 2045, this figure is projected to rise to 22,300 MT of CO2e per year. This accounts for 0.25% of total CO2e reductions expected from end-users based on hydrogen usage projections.

11 STAKEHOLDER FEEDBACK

SoCalGas presented opportunities for the PAG and CBOSG to provide feedback at four key milestones during the course of conducting this study: (1) the draft description of the Scope of Work, (2) the draft Technical Approach, (3) Preliminary Data and Findings, and (4) the Draft Reports. These milestones were selected because they are critical points at which relevant feedback can meaningfully influence the study.

Table 18
Key Milestone Dates

Milestone	Date Provided to PAG/CBOSG	Comment Due Date	Responses to Comments in Quarterly Report[1]
1. Scope of Work	7/6/2023	7/31/2023	Q3 2023
2. Technical Approach	9/7/2023	10/20/2023	Q4 2023
3. Preliminary Data and Findings	2/27/2024	3/29/2024	Q1 2024
4. Draft Report	7/10/2024	8/7/2024	Q3 2024

Feedback provided at the PAG/CBOSG meetings is memorialized in the transcripts of the meeting. Written feedback received is included in the quarterly reports, along with responses. Meeting transcripts are also included in the quarterly reports. The quarterly reports are submitted to the CPUC and are published on SoCalGas's website.

Feedback was incorporated as applicable at each milestone throughout the progression of the study. Some feedback was not incorporated for various reasons, including feedback that was already within the study scope, feedback that was outside the scope of the Phase 1 Decision or feasibility study, and feedback that raises issues better suited for third parties to address.

In response to feedback received following SoCalGas's presentation of the Preliminary Findings and Data to the PAG/CBOSG, this Study includes an estimate of the impact to estimated GHG reductions of a preliminary high-level volumetric estimate of the potential for leakage from hydrogen infrastructure from the Leakage Study Report, as well as presenting a summary of the estimated Global Warming Potential (GWP) 100 and GWP 20 for hydrogen available in the literature.

A summary of stakeholder input that was incorporated throughout the development of the GHG Study and into this Final Report is provided in Table 19: Summary of Incorporated Stakeholder Feedback. All feedback received, whether incorporated into the study or not as described above, has been recorded in the quarterly reports, along with SoCalGas's responses. Additionally, some administrative and other minor corrections were made to the Final GHG Study Report for clarity.

Table 19
Summary of Incorporated Stakeholder Feedback

Thematic Comments from PAG/CBOSG Members	Incorporation of and Response to Feedback
Overall GHG Reductions Stakeholder indicated that hydrogen leakage should be considered in the GHG emissions impact calculations. They requested that volumetric leakage estimates and associated impacts to climate change be discussed and a volumetric analysis be included in the Leakage Study and GHG Study.	In response to stakeholder comments, the range of preliminary high-level volumetric estimates quantifying the potential for leakage, provided in the Leakage Study was used in the GHG Study to predict a high-level range of potential impacts to the estimated overall GHG reductions associated with general new hydrogen infrastructure and with Angeles Link infrastructure using the potential for leakage values found during a literature review. The results are provided in Section 9.3.
Global Warming Potential Stakeholders requested an evaluation of the climate risks of projected GHG emissions and inquired about the type of evaluation that will be conducted to determine the indirect warming potential of hydrogen leakage. Stakeholders expressed interest in having the GHG Study prepared using both GWP 100 and GWP 20 values for hydrogen and examining climate impacts of different hydrogen leakage rates.	Although the IPCC has not assigned a GWP for hydrogen, scientific literature indicates that hydrogen behaves as an indirect GHG. In response to stakeholder comment, a summary of the estimated GWP 20 and GWP 100 values for hydrogen based on a literature review is now provided in Table 17.
Carbon Intensity Stakeholders suggested that the GHG Study should include carbon intensity and	Consistent with stakeholder comments, the GHG Study evaluates direct GHG emissions associated with hydrogen

Table 19 Summary of Incorporated Stakeholder Feedback	
Thematic Comments from PAG/CBOSG Members	**Incorporation of and Response to Feedback**
lifecycle emissions. There was a request to estimate GHG related to third-party production, specifically from water procurement, conveyance, and treatment; and from feed preparation and transport of biomass. Stakeholders also requested the inclusion of the carbon intensity of delivered hydrogen based on production and transport scenarios.	combustion related to new infrastructure, specifically third-party production, third-party storage, and transmission of hydrogen, as well as GHG emissions reductions associated with displaced fossil fuels by end users in the mobility, power generation, and hard-to-electrify industrial sectors. While lifecycle assessments require a level of detail beyond the scope of this feasibility study and have not been included, a summary of carbon intensity information from the literature is provided in Appendix B.
Third-Party Production Stakeholders requested clarification regarding assumptions and resulting GHG emissions associated with the three analyzed third-party production options – electrolysis, biomass gasification, and steam methane reforming.	In response to stakeholder feedback, the Study clarifies that an assumption was made that biomass would be procured ready for combustion and moisture removal would not be required on-site. The Study evaluated GHG associated with SMR using RNG as a feedstock and clean renewable hydrogen as a fuel for the heating equipment. Extensive details regarding GHG emissions associated with third-party production options have also been provided in Appendices A and B in response to this request.
Demand Study Assumptions Stakeholders commented that the Demand Study assumptions focused too heavily on regulatory and policy decisions.	An explanation of the GHG Study's reliance on information from the Demand Study was added to this report in response to stakeholder comment. The GHG Study includes analysis based on the three scenarios from the Demand Study and the three scenarios of currently projected throughput for Angeles Link. The GHG Study explains that SoCalGas's Demand Study projections were based on

Table 19 Summary of Incorporated Stakeholder Feedback	
Thematic Comments from PAG/CBOSG Members	**Incorporation of and Response to Feedback**
	independently developed assumptions and analysis of potential hydrogen uptake in the SoCalGas service territory. The Demand Study was peer reviewed by experts at third parties, including NREL, South Coast Air Quality Management District (SCAQMD), University of California Los Angeles (UCLA), UCI, and UC Davis (UCD).
Hydrogen Blending Stakeholders had questions regarding the blending of natural gas with hydrogen in the Angeles Link pipelines.	In response to stakeholder comment, the document clarifies that since the CPUC has mandated that Angeles Link only deliver 100% clean renewable hydrogen, blending of hydrogen with natural gas, if any, would be done behind the meter at the end users' facilities, as discussed in Section 3.5.2.3.
Decarbonization Pathways Stakeholders indicated that anticipated GHG emission reductions for the pipeline scenario should be evaluated with respect to optimization and relative efficiencies of other decarbonization pathways.	In response to stakeholder comment, Section 9.1 clarifies that a detailed comparison of potential GHG emissions reductions of Angeles Link compared to alternatives is beyond the scope of the Phase 1 feasibility analyses. The degree of analysis that could be reasonably completed at this feasibility stage to compare Angeles Link to other decarbonization pathways is included in the separate Alternatives Study, Cost Effectiveness Study, and Environmental Analysis.
End Users Stakeholders expressed concerns that indicated that Angeles Link will not serve refueling stations and that there isn't	Consistent with stakeholder comments and as described in the Routing Analysis, SoCalGas's route selection process evaluates directional pathways that account for engineering, environmental,

Table 19 Summary of Incorporated Stakeholder Feedback	
Thematic Comments from PAG/CBOSG Members	**Incorporation of and Response to Feedback**
sufficient information regarding routing with respect to end user locations.	social, and environmental justice features along the four potential preferred routes. A final preferred route will be selected in Phase 2 of Angeles Link. This clarifying information is included in Section 5.2.
Leakage at End Users Stakeholders requested an analysis of the potential for leakage associated with end users of hydrogen.	In response to stakeholder comments, additional information would be needed to expand the scope of the Leakage Study to project hydrogen leakage rates for each sub-sector within the three primary sectors of potential end-users (mobility, power generation, and hard-to-electrify industrial). This Phase 1 analysis was conducted using a top-down approach, at a high level rather than at a granular facility level and equipment specific level. The limited information found regarding potential leakage at end users was included in Global Response 2 in the Quarter 2 report and in Section 4.1.1 of the Leakage Study. Further investigation would be needed to evaluate whether any of the estimated values among the wide ranges would be appropriate predictors for Angeles Link end users.
Methane Leakage Stakeholders commented that upstream methane emissions should be considered.	In response to stakeholder comments, evaluation of methane leakage in the hydrogen industry is outside the scope of this feasibility analysis, as discussed in the Executive Summary and Section 3.2.
Project Construction Stakeholders suggested that GHG emissions from the construction of Angeles Link should be evaluated.	In response to stakeholder comments, Section 2 was updated to address the scope of the GHG Study and explains that project specific construction emissions will be evaluated as a part of

Table 19 Summary of Incorporated Stakeholder Feedback	
Thematic Comments from PAG/CBOSG Members	**Incorporation of and Response to Feedback**
	the CEQA/NEPA process which will be based on a defined project description that includes the pipeline route (the selection of which will occur as a part of a subsequent phase of Angeles Link), ancillary equipment, earthwork and construction equipment.
Literature Review Several stakeholders provided reports and literature to review and incorporate into the GHG Study.	In response to stakeholder feedback, the Study includes a review of relevant literature provided by stakeholders the reference list has been updated accordingly.

Summary of Literature Provided by Stakeholders

Specific literature provided has been evaluated and relevant information has been incorporated, as appropriate, including, but not limited to:

- AC Transit, Zero Emission Bus Transition Plan, 2022, 0162-22 ZEB Transition Plan_052022_FNL.pdf (actransit.org)
- Bertagni, M.B., Pacala, S.W., Paulot, F. et al. Risk of the hydrogen economy for atmospheric methane, Nat Commun 13, 7706 (2022). https://doi.org/10.1038/s41467-022-35419-7
- CARB, Innovative Clean Transit Regulation, https://ww2.arb.ca.gov/our-work/programs/innovative-clean-transit/about
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- Sun, Tianyi, et al. “Climate Impacts of Hydrogen and Methane Emissions Can Considerably Reduce the Climate Benefits across Key Hydrogen Use Cases and Time Scales.” Environmental Science & Technology, American Chemical Society, Feb. 2024, https://doi.org/10.1021/acs.est.3c09030

12 GLOSSARY

Anthropogenic causes - Anthropogenic causes are causes of environmental problems that are a result of human activities. Examples of anthropogenic causes are energy-related activities, such as combustion of fossil fuels in the electric utility and transportation sectors, and the anthropogenic greenhouse effect, which is due to greenhouse gases emitted by humans, leading to global warming.

Autoignition temperature – The minimum temperature that a substance mixed with air will ignite and burn without an ignition source.

Blended fuels – Blended fuels are mixtures of traditional and alternative fuels in varying percentages. Blends can be thought of as transitional fuels. The lowest-percentage blends are being marketed and introduced to work with current technologies while paving the way for future integration, in this case, eventual usage of 100% hydrogen fuel.

Carbon-based fuel (also includes fossil fuel) – Hydrocarbon materials of biological origin. Carbon-based fossil fuel includes decomposing plants and other organisms, buried beneath layers of sediment and rock. These fuels have taken millennia to become the carbon-rich deposits we now call fossil fuels. These fuels include coal, oil, and natural gas.

Clean renewable hydrogen – Clean renewable hydrogen is defined as hydrogen that does not exceed 4 kilograms of CO_2e produced on a lifecycle basis per kilogram of hydrogen produced and does not use fossil fuel in the hydrogen production process where fossil fuel is defined as a mixture of hydrocarbons including coal, petroleum, or natural gas, occurring in or extracted from underground deposits per Decision 22-12-055 dated December 15, 2022.

Cogeneration – Cogeneration is the use of a heat engine or power station to generate electricity and useful heat at the same time. Cogeneration is a more efficient use of fuel or heat, because otherwise-wasted heat from electricity generation is put to some productive use. These plants recover otherwise wasted thermal energy for heating.

Compressors – A compressor is a mechanical device that increases the pressure of a gas by reducing its volume. Compressors are similar to pumps: both increase the pressure on a fluid and both can transport the fluid through a pipe. The main distinction is that the focus of a compressor is to change the density or volume of the fluid, which is mostly only achievable on gases. Gases are compressible, while liquids are relatively incompressible, so compressors are rarely used for liquids. The main action of a pump is to pressurize and transport liquids.

Combustion units – A combustion unit generates mechanical power by combustion of a fuel. Combustion units are of two general types: internal combustion engines and external combustion units.

Decarbonize – Decarbonization can mean moving away from energy systems that produce carbon dioxide (CO_2) and other greenhouse gas emissions. Energy decarbonization involves shifting the entire energy system in an attempt to stop carbon emissions from entering the atmosphere before they are ever released — this involves decarbonizing power grids, decarbonizing supply chains, and utilizing carbon sequestration in the pursuit of net-zero emissions and a carbon-neutral global economy.

Density – the mass per unit volume of a substance.

Diffusivity – Diffusivity is a measure of the capability of a substance or energy to be diffused or to allow something to pass by diffusion. Diffusivity refers to the spreading of something or making it less concentrated.

Electrolyzer – An electrolyzer uses electrolysis as a method for carbon-free hydrogen production (green hydrogen) from renewable and nuclear resources. Electrolysis is the process of using electricity to split water into hydrogen and oxygen. This reaction takes place in an electrolyzer that can range in size from small, appliance-sized equipment that is well-suited for small-scale distributed hydrogen production to large-scale, central production facilities that could be tied directly to renewable or other non-greenhouse-gas-emitting forms of electricity production.

End-users – An end-user uses the hydrogen delivered by Angeles Link.

Engine – a machine that converts thermal energy into useful work (e.g., electricity of shaft power) to produce force and motion.

Exhaust gas aftertreatment – a device that reduces exhaust emissions from combustion equipment such as turbines and engines. It cleans exhaust gases to ensure the engines meet emission regulations. The main function of an aftertreatment system is to reduce emissions post combustion.

External combustion – The process of combining heat, fuel, and oxygen without the use of a combustion chamber to produce thermal energy.

Feasibility study – A feasibility study is an assessment of the practicality of a proposed project plan or method. For example, asking “Is this feasible?” by analyzing implementation and operational factors.

Feedstock – Feedstock is the material that is used in some hydrogen production equipment such as renewable natural gas and biomass.

Flammability range – The range of air-to-fuel ratios for which a substance will burn when exposed to an ignition source. The low end of this range is “rich” combustion where excess fuel inhibits combustion. The high end of this range is “lean” combustion where excess air inhibits combustion.

Global Warming Potential (GWP) – Global warming potential (GWP) is a measure of how much infrared thermal radiation a greenhouse gas added to the atmosphere would absorb over a given time frame, as a multiple of the radiation that would be absorbed by the same mass of added carbon dioxide (CO_2). GWP is 1 for CO_2. For other gases it depends on how strongly the gas absorbs infrared thermal radiation, how quickly the gas leaves the atmosphere, and the time frame being considered.

Green hydrogen – Green hydrogen is produced through water electrolysis process by employing renewable electricity. The reason it is called green is that there is no CO_2 emission during the production process. Water electrolysis is a process which uses electricity to decompose water into hydrogen gas and oxygen.

Heavy-duty transportation – Heavy-duty transportation includes flatbed trailers, wide load hauling, large trucks, and freight trucks.

Hydrogen – Hydrogen is a colorless, odorless, tasteless, flammable gaseous substance that is the simplest member of the family of chemical elements.

Hydrogen fuel cell - A hydrogen fuel cell is an electrochemical cell that produces a current that can work using a spontaneous redox reaction. The combination of the two half-cell potentials for the electrochemical reaction creates a positive potential for cells. In general, fuel cells are different from most batteries in that they require a continuous source of fuel and oxygen (usually from air) to sustain the chemical reaction, whereas in a battery the chemical energy usually comes from substances that are already present in the battery. Fuel cells can produce electricity continuously for as long as fuel and oxygen are supplied. The only byproduct of a hydrogen fuel cell is water vapor.

Ignition energy – The minimum energy required to initiate the self-sustained combustion of a substance.

Infrastructure – Infrastructure are the resources such as pipelines and compressors required for an activity such as transmission of hydrogen.

Internal combustion – The process of combining heat, fuel, and oxygen within a combustion chamber where the combustion gasses themselves are the working fluid.

Methane – Methane is a chemical compound with the chemical formula CH_4 (one carbon atom bonded to four hydrogen atoms). It is the main component of natural gas.

Methodology – Methodology is the general research strategy that outlines the way in which research is to be undertaken and, among other things, identifies the methods to be used in it. These methods, described in the methodology, define the means or modes of data collection or, sometimes, how a specific result is to be calculated.

N_2O – N_2O is nitrous oxide, a greenhouse gas commonly known as laughing gas or nitrous, and is a chemical compound, an oxide of nitrogen. At room temperature, it is a colorless non-flammable gas, and has a slightly sweet scent and taste.

NOx – NOx is shorthand for nitrogen oxides (comprised of NO and NO_2) which is an air pollutant subject to air quality regulations formed during combustion of fossil fuels and a precursor to ozone.

Reciprocating compressors – A reciprocating compressor uses a linear drive to move a piston or a diaphragm back and forth to compress a gas. This motion compresses the gas by reducing the volume it occupies. Reciprocating compressors are the most used compressors for applications that require a very high compression ratio (compression ratio is the ratio of the pressure at the outlet of the compressor over the pressure at the inlet of the compressor).

Refining – Refining is removing impurities or unwanted elements from a substance, typically as part of an industrial process.

Stationary source – A stationary source refers to a qualitative term used to describe any fixed emitter of air pollutants, such as power plants, oil refineries, and heavy industrial facilities.

Steam generating units – Industrial/commercial/institutional steam generating units are boilers that are capable of combusting over 10 million international British thermal units per hour (MMBtu/hr) of fuel. A boiler or steam generator is a device used to create steam by applying heat energy to water.

Stoichiometric ratios/calculations – Stoichiometric ratios/calculations are used to analyze the relationship between the weights of reactants and products before, during, and following chemical reactions. Stoichiometry is founded on the law of conservation of mass where the total mass of the reactants equals the total mass of the products, leading to the insight that the relations among quantities of reactants and products typically form a ratio of positive integers. This means that if the amounts of the separate reactants are known, then the amount of the product can be calculated. Conversely, if one reactant has a known quantity and the quantity of the products can be empirically determined, then the amount of the other reactants can also be calculated.

Throughput – Throughput is the amount of a product or service that is provided.

Turbines - A turbine is a rotary mechanical device that extracts energy from a fluid flow and converts it into useful work. The work produced can be used for generating electrical power when combined with a generator. A turbine is a turbomachine with at least one moving part called a rotor assembly, which is a shaft or drum with blades attached. Moving fluid acts on the blades so that they move and impart rotational energy to the rotor. In a gas turbine, the turbine is driven by expansion of hot gases. In a steam turbine, expanding steam drives the turbine. The turbine can do mechanical work or be used to generate electricity.

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Appendix A: Development and Application of GHG Emission Factor for Hydrogen Combustion

Combustion of hydrogen is anticipated to have zero or potentially trace GHG emissions. To account for the potential N_2O emissions that may form during combustion since N_2O is a GHG, in the absence of published N_2O emissions factors for hydrogen combustion, the following approach was used to develop hydrogen emissions factors based on studies. Details regarding assumptions made to apply the N_2O emission factor are also discussed below.

Development of GHG Emission Factor

Studies evaluating the formation of N_2O from the combustion of hydrogen typically fall into two categories: modeling or direct measurement. For the modeling studies, various models, variable inputs, and boundary conditions are used to account for the unique properties of hydrogen and minimization of air pollutant emissions. Direct measurement studies addressing N_2O formation from the combustion of hydrogen are typically performed on equipment that was not originally designed to account for the unique combustive properties of hydrogen.

A paper published in the International Journal of Hydrogen Energy in 2017 by a team at UCI investigated whether N_2O emission could be formed and emitted by the combustion of various fuels that did not contain nitrogen.[117] The study evaluated natural gas with up to 70% hydrogen added (by volume). The results indicated that direct N_2O emissions were observed in greater volumes during transient events such as ignition and blowoff. It also found that steady state combustion of hydrogen-enriched natural gas flames can lead to the direct emissions of N_2O when operated at very lean conditions, made possible by the stabilizing effects of hydrogen. The study measured N_2O concentrations at various fuel–air equivalence ratios, phi. The fuel–air equivalence ratio is defined as the ratio of the fuel-to-oxidizer ratio to the stoichiometric fuel-to-oxidizer ratio. If the fuel-air equivalence ratio is less than 1, the mixture is considered lean (air is in excess). The study compared the lean burnoff experimental measurements with GRI 3.0 and University of California San Diego (UCSD) chemical reaction mechanisms,[118] with the UCSD mechanism following the experimental trends. The USCD San Diego Mechanism is used for modeling combustion applications as a chemical-kinetic mechanism with 57 species

[117] Colorado, A., V. McDonell and S. Samuelsen, 2017, Ibid.
[118] University of California at San Diego, 2023, Chemical-Kinetic Mechanisms for Combustion Applications, University of California at San Diego Mechanical and Aerospace Engineering (Combustion Research), San Diego Mechanism web page, https://web.eng.ucsd.edu/mae/groups/combustion/mechanism.html

in 268 reactions.[119] GRI 3.0 is a mechanism for modeling natural gas combustion, including 325 reactions and 53 species.[120] As noted in this study, N_2O is rapidly consumed at high temperatures or when equivalence ratio is close to the stoichiometric point ($\phi = 1$). Therefore, combustion parameters such as a higher ratio of air-to-fuel (leaner combustion) and lower combustion temperatures that are utilized to minimize the formation of NOx emissions from the combustion of hydrogen fuels may potentially have the opposite effect on direct N_2O emissions. These effects need to be studied further since hydrogen combustion allows for leaner mixtures and stable operation at lower temperatures.

In a white paper prepared by the National Energy Technology Laboratory (NETL), hydrogen combustion emissions are evaluated. Similar to other literature, it is noted that thermal NOx is the prevalent form of NOx emissions for most high-temperature combustion (higher than 1,500°C). It is noted that in regions of the flame where there is a lack of oxygen, N_2O can also be formed from the under-oxidation of nitrogen. N_2O formation through this intermediate mechanism during combustion is generally very rare compared to other NOx compounds according to the paper "A Literature Review of Hydrogen and Natural Gas Turbines: Current State of the Art with Regard to Performance and NOx Control."[121]

A 1994 paper by Kramlich et al. indicates that in most nitrogen free gas fuel combustion systems the flame temperature is sufficiently high that any N_2O formed in the flame zone is destroyed before the gases are emitted.[122]

A modeling study completed by Duan et al. published in 2017 studied the mechanisms for NOx formation in a hydrogen internal combustion engine under high load found that

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[119] CERFACS (Centre Euorpéen de Recherche et de Formation Avancée en Calcul Scientifique), 2023, CANTERA User's Guide - Hydrogen/Air Combustion, https://cerfacs.fr/cantera/mechanisms/hydro.php

[120] Smith, G.P., D.M. Golden, M. Frenklach, N.W. Moriarty, B. Eiteneer, M. Goldenberg, C.T. Bowman, R.K. Hanson, S. Song, W.C. Gardiner, Jr., V.V. Lissianski, and Zhiwei, 2023, GRI-Mech 3.0 webpage, Qin http://www.me.berkeley.edu/gri_mech/

[121] National Energy Technology Laboratory, 2022, A Literature Review of Hydrogen and Natural Gas Turbines: Current State of the Art with Regard to Performance and NOx Control, White Paper DOE/NETL-2022/3812, August 12, https://www.netl.doe.gov/sites/default/files/publication/A-Literature-Review-of-Hydrogen-and-Natural-Gas-Turbines-081222.pdf

[122] Kramlich, J.C. and W.P. Linak, 1994, Nitrous oxide behavior in the atmosphere, and in combustion and industrial systems, Progress in Energy and Combustion Science 20(2): 149-202, https://www.sciencedirect.com/science/article/abs/pii/0360128594900094?via%3Dihub

the N_2O concentration increased during the period of combustion. However, N_2O concentration at the end of the modeled process was less than 1 ppm. [123]

Table A-1
Summary of Experimental Data of Hydrogen Combustion by Fuel Type

Fuel (Equipment)	Metric	Value	Units	Author
H_2:NG Blend (Burner)	Experimental	0.55	ppm (wet)	Colorado et al., 2017
H_2 (HICE)	Model Transient	6	ppmvd	Duan et al., 2017
H_2 (HICE)	Model Typical	1	ppmvd	Duan et al., 2017
H_2 (Residential Boiler)	Experimental	0.41	ppmvd	Galbraith, 2023[124]

As discussed above, data on N_2O emissions from 100% hydrogen combustion is sparse. In the table above, experimental data for blended hydrogen fuel, N_2O modeled data, and experimental data for hydrogen combustion are summarized. While data was available for ignition and transient combustion, the focus was on establishing a N_2O emission factor for steady-state combustion to best reflect anticipated combustion emissions. In collaboration with UCI, an evaluation of the available data was conducted. An average of the experimental data including the standard deviation was considered, but in effort to avoid the potential of underestimating N_2O emissions, the worst-case modeling data was chosen as the basis for estimated N_2O emissions from hydrogen combustion. It was further decided to add an additional layer of conservatism by applying a margin of safety of two. This approach utilizes the best data currently available and the inclusion of a margin of safety accounts for the uncertainty and the limited dataset. The conclusion is that a N_2O emission factor of 2 ppmvd was used for this study.

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[123] Duan, J., F. liu, Z. Yang, B. Sun, W. Chen, and L. Wang, 2017, Study on the NOx emissions mechanism of an HICE under high load, International Journal of Hydrogen Energy 42(34): 22027-22035, https://doi.org/10.1016/j.ijhydene.2017.07.048
[124] Galbraith, John, 2023, Nitrous Oxide Emissions Associated with 100% Hydrogen Boilers: Research, Energy and Climate Change Directorate, https://www.gov.scot/publications/nitrous-oxide-emissions-associated-100-hydrogen-boilers/ [gov.scot]

Application of GHG Emission Factor

The N_2O emission factor was used to estimate GHG from hydrogen combustion for the following:

- Infrastructure: Production, Storage, and Transmission
- End-Users: Mobility, Power Generation, and Hard to Electrify Industrial

Production

Electrolysis Powered by Renewable Electricity

The process of electrolysis is not a combustion process and therefore N2O emissions are zero.

Biomass Gasification

No method for calculating greenhouse gas emissions was identified for biomass gasification, nor were any directly measured emissions from the process. Based on the scientific literature, biomass gasification is likely a "carbon neutral" process and may have negative life cycle greenhouse gas emissions.[125] The reason is that growing biomass removes carbon dioxide from the atmosphere. It is assumed for the purposes of this study, that a "carbon neutral" source of biomass will be selected for the production of hydrogen to be distributed by Angeles Link. Therefore, no CO_2 or CH_4 emissions are assumed from the biomass gasification process. Biomass gasification is a controlled process involving heat, steam, and oxygen to convert biomass to hydrogen and other products without combustion, and it occurs at high temperatures greater than 700 degrees Celsius. As such, it was assumed that N_2O formation during biomass gasification is negligible. However, very little scientific literature is available that addresses the potential formation of N_2O from biomass gasification. A study completed by Sikarwar et al. in 2016 notes that there is the potential for nitrogen contamination in the outlet of the biomass gasification system if there is fuel nitrogen is present.[126] For the purposes of this study, it was assumed that no nitrogen is contained in the biomass or any other fuel source, as hydrogen is the preferred fuel source within the Angeles Link supply chain. Therefore, for the purposes of this study, it was assumed that N_2O emissions from biomass gasification were negligible.

[125] Yaser, Khojasteh Salkuyeh, Bradley A. Saville, Heather L. MacLean, International Journal of Hydrogen Energy Volume 43, Issue 20, 17 May 2018, Pages 9514-9528, Techno-economic analysis and life cycle assessment of hydrogen production from different biomass gasification processes https://www.sciencedirect.com/science/article/abs/pii/S0360319918311182

[126] Sikarwar, V.S., M. Zhao, P. Clough, J. Yao, X. Zhong, M. Zaki Memon, N. Shah, E.J. Anthony and P.S. Fennell, 2016, An overview of advances in biomass gasification, Energy and Environmental Science 9(10): 2927-3304, https://pubs.rsc.org/en/content/articlepdf/2016/ee/c6ee00935b

The biomass gasification process requires dry biomass. It is possible to obtain biomass containing moisture that would require drying on-site. However, this is dependent on the biomass available in the area and the supply chain and procurement for the specific facility. Due to the level of uncertainty around whether on-site drying would be required for each specific biomass gasification facility, this study assumed that biomass would be procured ready to utilize and would not require moisture removal on-site.

The syngas formed through biomass gasification can potentially be utilized in steam reforming to obtain additional hydrogen from the remaining hydrocarbons. Biomass gasification using steam as the oxidizing agent can achieve efficiencies of up to 44%.[127] Running the syngas through the steam reforming process improves the overall efficiency and converts any remaining hydrocarbons, primarily CH_4, to hydrogen.

<u>SMR Utilizing RNG as Feedstock and Hydrogen as Fuel for Heat Generation</u>

For the purposes of this study, it was assumed that renewable natural gas generated from dairy farms would be the feedstock for the SMR process. Renewable natural gas, as it is referred to in this study, is a useable feedstock for the SMR process as it generally has a methane content of 96% to 98%.[128] Biomethane is a type of renewable natural gas which is typically developed by the anaerobic digestion of manure and/or food wastes at a dairy farm or similar facility. The anaerobic digestion of these waste products generates a gaseous and a liquid product. The gaseous product is known as biogas and is subsequently sent through a cleaning skid where pollutants and impurities are removed resulting in renewable natural gas. The liquid product is called digestate and may be used as fertilizer in agriculture.

Steam reforming of renewable natural gas does have the potential to produce direct GHG emissions. Potential point sources of direct GHG emissions from combustion within a hypothetical steam reforming process include a furnace or external combustion unit for heat generation and may include a flare for use during maintenance, upset, and startup/shutdown operations. Given that pure hydrogen will be used as fuel for the combustion process, there is no potential for the formation of CO_2 or CH_4 emissions from the combustion hydrogen within the SMR process. However, there is the potential for N_2O formation from the combustion of hydrogen.

To calculate N_2O emissions from the external combustion unit within the steam reforming process, a heat rating per unit of hydrogen produced was required. To estimate an appropriate heat rating for the steam reforming process, air permits for existing steam

[127] Rödl, A., C. Wulf, M. Kaltschmitt, 2018, Chapter 3 – Assessment of Selected Hydrogen Supply Chains—Factors Determining the Overall GHG Emissions in Hydrogen Supply Chains, Editor: C. Azzaro-Pantel, Academic Press, ISBN 9780128111970, https://doi.org/10.1016/B978-0-12-811197-0.00003-8
[128] EPA, 2024b, Renewable Natural Gas, https://www.epa.gov/lmop/renewable-natural-gas

methane reforming plants were reviewed. Only standalone SMR production facilities, external combustion units with a given heat rating rather than a “not-to-exceed", and facilities with no more than 2 external combustion units were reviewed.

The external combustion unit heat rating was compared against the plant hydrogen production capacity to develop a ratio of (MMBtu/hr) / (MMscf/day hydrogen production) ratio. For facilities where the plant hydrogen production capacity was not stated in the air permit, the facility hydrogen production capacity was gathered from the Pacific Northwest National Laboratory (PNNL) Hydrogen Analysis Resource Center North American Merchant Hydrogen Plant Production Capacity list.[129] Of these facilities considered, the highest (MMBtu/hr) / (MMscf/day hydrogen production) ratio was 3.71 MMBtu/hr per MMscf/day hydrogen production, and the average was 2.97 MMBtu/hr per MMscf/day hydrogen production. Three calculation cases were established, the maximum case using the average plus standard deviation for the ratio value (3.62 MMBtu/hr per MMscf/day H2 production), the moderate case using the average ratio value (2.97 MMBtu/hr per MMscf/day H2 production), and the minimum case using the average minus the standard deviation for the ratio value (2.32 MMBtu/hr per MMscf/day H2 production).

For the purposes of this study, it is assumed that the external combustion unit would operate using hydrogen as fuel. It was assumed that some of the hydrogen produced by SMR would be siphoned off to use as fuel. As such, the volume of hydrogen produced was increased based on the amount of hydrogen that would be needed as fuel. To calculate the amount of hydrogen that would be required for use as fuel to generate the necessary total volume of hydrogen to meet end-user demand, the end-user demand was converted to an MMscf/day value and the maximum MMBtu/hr case of 3.62 MMBtu/hr per MMscf/day of hydrogen production was utilized to determine an appropriate MMBtu/hr rating to meet the demand. The MMBtu/hr values were multiplied by 8,760 (hours/year) to calculate the maximum annual MMBtu value for the hydrogen fuel. This annual MMBtu value was added to the end-user MMBtu demand values for each Demand Scenario to determine the total estimated annual production volumes.

A thermal efficiency was then applied to account for the fact that energy conversion is generally less than 100%. Research was completed to determine an appropriate thermal efficiency for a hydrogen fueled external combustion unit. No single value was discovered that would be representative for all hydrogen fueled external combustion units. Therefore, an average of multiple values was utilized. Values were obtained from DOE, a study completed by Gupalo et al. (2023), and an article by Gerardo Lara in Power

[129] Pacific Northwest National Laboratory (PNNL), 2016, North American Merchant Hydrogen Plant Production Capacities, data available on the Hydrogen Tools website, https://h2tools.org/hyarc/hydrogen-data/merchant-hydrogen-plant-capacities-north-america

Engineering.[130] [131] [132] Based on these articles, an efficiency of 73% was applied within this study.

Based on this methodology, roughly 38% of the hydrogen produced would be utilized as fuel for heat generation. As a note, this is likely a high estimate due to the use of only the maximum MMBtu/hr per MMscf/day hydrogen production ratio to determine fuel requirements. Utilizing the average case ratio yields a hydrogen use percent of total production of 31%, where the minimum case ratio yields 24%.

N_2O emissions factors for external combustion were calculated utilizing the same process as outlined for stationary combustion end-users and the conservative value of 2 ppmvd (equivalent to 0.0265 kg CO_2e/kg H_2 combusted) was conservatively utilized for external combustion. The calculations within this study assumed that hydrogen was the fuel for the external combustion unit within the SMR operations.

Storage and Transmission

A two-step calculation approach was utilized to determine N_2O emissions from storage and transmission:

Estimate the total energy requirements to power compressors.

Calculate emissions from reciprocating engines and turbines associated with this energy.

The total energy requirement to power compressors for storage and transmission were developed from Bossel and Eliasson (2003)[133], a widely cited scientific paper. The first figure below, is a chart from this publication of compression energy (MJ/kg) to compress hydrogen at various pressures. Using this figure, the amount of energy required to store hydrogen can be calculated given a particular quantity of hydrogen (kg) and storage pressure (bar). The second chart from this this publication, the second figure below is a chart of the percentage of hydrogen that would be consumed to power compressors to transport hydrogen over a particular distance of pipeline. This figure can be used to calculate the amount of hydrogen (and therefore energy) required to transport hydrogen

[130] DOE, Purchasing Energy-Efficient Large Commercial Boilers, https://www.energy.gov/femp/purchasing-energy-efficient-large-commercial-boilers

[131] Gupalo, O., 2023, Study of the efficiency of using renewable hydrogen in heating equipment to reduce carbon dioxide emissions, from IOP Conference Series: Earth and Environmental Science, doi:10.1088/1755-1315/1156/1/012035, https://iopscience.iop.org/article/10.1088/1755-1315/1156/1/012035/pdf

[132] Lara, G., 2022, Boilers running on hydrogen: What you need to know, from Power Engineering, https://www.power-eng.com/hydrogen/boilers-running-on-hydrogen-what-you-need-to-know/

[133] Bossel, U., and B. Eliasson, 2003, Energy and the Hydrogen Economy, https://afdc.energy.gov/files/pdfs/hyd_economy_bossel_eliasson.pdf

a distance via pipeline. Using these two data sources, the total energy required to power compressors used for storage and transmission could be determined.

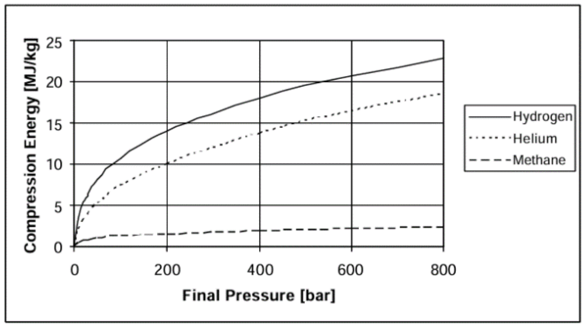

Figure A-1. Adiabatic Compression Work for Hydrogen, Helium, and Methane

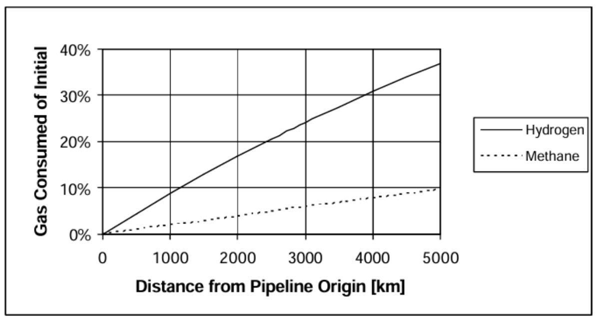

Figure A-2 Fraction of Gas Consumed to Energize the Pumps Corresponds to the Relative Energy Consumption of the Transported Gas

Based on data from Bossel and Eliasson (2003), the following information was required to determine N_2O emissions from transmission and third-party storage:

- Hydrogen storage pressure
- Hydrogen storage quantity
- Hydrogen transmission distance
- N_2O emissions factors for reciprocating engines and turbines

A range of possible N_2O emissions scenarios were evaluated related to new hydrogen infrastructure. A total of four scenarios were evaluated (per Demand Scenario) representing each combination of two (2) storage pressure scenarios, (2) compressor power source scenarios, and one (1) transmission distance scenarios. Annual N_2O emissions estimates were developed for each of these four storage and transmission scenarios for each of the three Demand Scenarios (conservative, moderate, and ambitious).

Storage pressure scenarios were developed based on storage pressures from Tahan (2022).[134] This publication presented a variety of hydrogen storage options at a high-level

[134] Tahan, M., 2022, Recent advances in hydrogen, Ibid

and their corresponding pressures. The highest and lowest pressures from this publication were utilized to represent the full range of potential storage pressures, and therefore storage compressor energy demands, from this project. These high and low storage pressure scenarios were 200 and 20 bar respectively, corresponding to storage underground and in spherical pressure vessels respectively.

A conservative N_2O emissions factor of 2 ppmvd (equivalent to 0.0265 kg CO_2e/kg H_2) was utilized to represent the potential for N_2O formation from the combustion of hydrogen with air. This same factor was used for reciprocating engines and turbines. Efficiency values for reciprocating engines and turbines were also sourced from scientific literature to convert fuel energy (MMBtu) to energy supplied by power sources for compression (MJ). These efficiency values were 60.3% and 51.9% for hydrogen fueled reciprocating engines and turbines respectively.[135] [136] A transmission distance of 450 miles of pipeline was assumed.

It was assumed that storage requirements would be similar between hydrogen and natural gas to accommodate fluctuations in fuel supply and demand. Data from 2022 from the "2023 California Gas Report Supplement" was used to estimate a California-specific value for the fraction of annual hydrogen demand that would be stored. From this source, it was determined that the average quantity of supplied natural gas in California during 2022 was 6,023 MMcf/day, which equates to approximately 2,198 Bcf/yr. This source also indicated that in 2022 California had a natural gas storage capacity of approximately 304 Bcf. Dividing these two values yielded a maximum (conservative) fraction of annual natural gas demand that would be stored: 13.8%. This value was applied to hydrogen; therefore, it was assumed that annually 13.8% of hydrogen demand would be stored.

Collectively, this information was used to determine the energy requirements for the compressors utilized in storage and transmission. N_2O emissions, as CO_2e, from storage and transmission were calculated by multiplying overall compressor energy demand by N_2O emissions factor by N_2O GWP (AR6).

Based on the figures above and information from the literature as summarized above, the compression needs for storage were determined to be 4 MJ/kg for storage pressure at 20 bar and 14 MJ/kg for storage pressure at 200 bar, Additionally, for transmission, the hydrogen that would be consumed by the reciprocating or centrifugal compressors, was

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[135] Babayev, R., H.G. Im, A. Andersson, and B. Johansson, 2022, Hydrogen double compression-expansion engine (H2DCEE): A sustainable internal combustion engine with 60%+ brake thermal efficiency potential at 45 bar BMEP, Energy Conversion and Management 264: 115698, https://doi.org/10.1016/j.enconman.2022.115698

[136] Salam, Md A., Md. A. Ali Shaikh, and K. Ahmed, 2023, Green hydrogen based power generation prospect for sustainable development of Bangladesh using PEMFC and hydrogen gas turbine, Energy Reports 9: 3406-3416, https://doi.org/10.1016/j.egyr.2023.02.024

determined to be 0.0093% of the volume in the pipelines per kilometer of transmission via pipelines.

The following emission factors were developed for reciprocating engine and turbine compressors combusting clean renewable hydrogen:

- Hydrogen combusted (reciprocating engine & turbine compressors)
    - 2.1673E-11 grams CO_2e per gram H_2
    - 0.0005988 MT CO_2e per MMBtu
- Hydrogen transported (reciprocating engine & turbine compressors)
    - 5.5886E-8 grams CO_2e per gram H_2 per kilometer
    - 2.0228E-15 MT CO_2e per MMBtu H_2 per kilometer
- Hydrogen stored at 290 psi (reciprocating engine compressor)
    - 0.01318 grams CO_2e per gram H_2
- Hydrogen stored at 2,900 psi (reciprocating engine compressor)
    - 0.003765 grams CO_2e per gram H_2
- Hydrogen stored at 290 psi (turbine compressor)
    - 0.01531 grams CO_2e per gram H_2
- Hydrogen stored at 2,900 psi (turbine compressor)
    - 0.004374 grams CO_2e per gram H_2

Collectively, this information was used to determine the energy requirements for the compressors utilized in transmission and storage. NOx emissions were calculated by multiplying overall compressor energy demand by NOx emissions factor. NOx emissions were estimated for a total of 12 scenarios corresponding to 4 storage and transmission scenarios for each of the 3 Demand Scenarios. These 4 transmission and storage scenarios were based on each combination of two storage pressure scenarios, two pressure source scenarios, and one transmission distance scenarios. This was repeated for a total of 12 scenarios for each of the 3 Throughput Scenarios. These emissions scenarios are listed in the table below. In combination, these scenarios represent the range of possible transmission and storage characteristics and the corresponding NOx emissions.

Table A-2 Storage and Transmission Calculation Scenarios Evaluated

Scenario	Storage Pressure	Transmission Distance	Compressor Driver	Demand
1	High (2,900 psi)	450 mi	Reciprocating Engine	Low
2	Low (290 psi)	450 mi	Reciprocating Engine	Low
3	High (2,900 psi)	450 mi	Turbine	Low
4	Low (290 psi)	450 mi	Turbine	Low
5	High (2,900 psi)	450 mi	Reciprocating Engine	Moderate
6	Low (290 psi)	450 mi	Reciprocating Engine	Moderate
7	High (2,900 psi)	450 mi	Turbine	Moderate
8	Low (290 psi)	450 mi	Turbine	Moderate
9	High (2,900 psi)	450 mi	Reciprocating Engine	High
10	Low (290 psi)	450 mi	Reciprocating Engine	High
11	High (2,900 psi)	450 mi	Turbine	High
12	Low (290 psi)	450 mi	Turbine	High

Mobility

The EMFAC model does not include CH_4 and N_2O emissions data for off-road mobile vehicles. As such, additional research was completed to establish the most representative CH_4 and N_2O emissions factors for off-road mobile sources. The EPA Emission Factors for Greenhouse Gas Inventories document most recently modified on September 12, 2023 was selected as the most appropriate and representative source for CH_4 and N_2O emissions factors for off-road mobile sources. The document consolidates these emissions factors from the Annex tables in the EPA (2022) Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2020. Table A-3 is a summary of the GHG emission factors that were developed for the mobility sector. Table A-4 summarizes the allocation of each mobility sub-sector to the two fossil fuels being displaced, diesel and gasoline, as a total for the fifteen-year study period.

Table A-3 GHG Emission Factors by Fuel Type for On-Road & Off-Road Vehicles

Vehicle Type	Fuel Type	CO_2 (MT/gal)	CH_4 (MT/gal)	N_2O (Mt/gal)
On-Road	Diesel	0.0102	2.2078E-08	1.6000E-06
On-Road	Gasoline	0.0086	2.7499E-07	3.2282E-07
Off-Road	Diesel	0.0100	2.1960E-06	7.8800E-07
Off-Road	Gasoline	0.0065	1.7100E-06	1.0560E-06

Table A-4 Percentage of Total Fuel Type Displaced for each Mobility Sub-sector 2030 to 2045

Subsector	BAU % Diesel	BAU % Gasoline
MDV	38.81%	61.19%
HDV	99.99%	0.01%
Bus	10.15%	89.85%
Ag	92.14%	7.86%
CHC	100.00%	0.00%
CHE	27.55%	72.45%
C&M	67.65%	32.35%
GSE	18.28%	81.72%

Power Generation and Hard to Electrify Industrial

The research completed for this study did not reveal any published hydrogen-specific GHG combustion emission factors. There is agreement within scientific literature that the formation of carbon GHGs (CO_2 and CH_4) will be zero from the combustion of hydrogen fuel. Reductions of CO_2 and CH_4 emissions will therefore be 100% when compared to the emissions calculated for the fossil fuels displaced by hydrogen. The combustion of hydrogen at lower temperatures does provide potential for the formation and emissions of N_2O. However, there is uncertainty around the contributing factors to the formation and N_2O emissions. This uncertainty was discussed in the N_2O development of emissions factor section above.

Appendix B: Carbon Intensity Evaluation of Third-Party Production Options

This evaluation sought to gather existing data regarding potential lifecycle GHG emissions associated with electrolysis powered by renewable electricity, biomass gasification, and SMR of RNG using hydrogen as fuel for any combustion units. Lifecycle GHG emissions associated with hydrogen production include direct (Scope 1) and indirect emissions (Scope 2 and Scope 3).

At the time of this study, details regarding third-party production for new hydrogen infrastructure are not complete, and therefore, it is not feasible to estimate Scope 3 greenhouse gas emissions for the specific processes. It is critical to note that none of the lifecycle carbon intensities referenced in this section were developed for Angeles Link, they are all hypothetical scenarios or based on existing facilities and therefore, are not necessarily representative of the third-party production options being evaluated. The carbon intensity values presented in this section were obtained from existing literature and do not represent the full range of potential carbon intensities for each hydrogen production methodology. Based on the assessment within this study and with the information currently available, it is not possible to determine which of the potential hydrogen production methodologies will best meet the CPUC definition for clean renewable hydrogen. However, based on existing data, it appears to be possible for all three of the methodologies being considered to meet the CPUC definition depending on operational variables.

Multiple studies found in the literature were prepared to assess the lifecycle carbon intensity (kg CO_2e/kg H_2 produced) for the various hydrogen production methodologies. While there is not a single standardized methodology and structure for Life Cycle Assessments (LCA), existing standards include International Organization for Standardization (ISO) 14040 and ISO 14044, and assessment methods such as ReCiPe2016.[137] [138] Key variables for assessing carbon intensity for each methodology include the type and amount of feedstock required, type and amount of process fuels required, electricity required, water required for each of the various production methods, and the full supply chain for the required feedstock and fuel. The Greenhouse gases, Regulated Emissions, and Energy use in Transportation (GREET) Model[139] is a publicly available tool that estimates “well-to-gate” (WTG) or “well-to-wheel” carbon intensity for

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[137] Cho, H.H., V. Strezov, and T.J. Evans, 2022, Environmental impact assessment of hydrogen production via steam methane reforming based on emissions data, Energy Reports 8: 13585-13595, https://doi.org/10.1016/j.egyr.2022.10.053

[138] Mehmeti, A., A. Angelis-Dimakis, G. Arampatzis, S.J. McPhail and S. Ulgiati, 2018, Life Cycle Assessment and Water Footprint of Hydrogen Production Methods: From Conventional to Emerging Technologies, Environments 5(2), https://doi.org/10.3390/environments5020024

[139] Argonne National Laboratory, 2022a, GREET Model Detail: The Greenhouse gases, Regulated Emissions, and Energy use in Technologies Model (GREET) | Bioenergy Models | NREL

hundreds of pathways, including hydrogen production, and was also utilized to assess potential life cycle carbon intensities.

For this analysis, an evaluation was conducted to determine the "well-to-gate" carbon intensity for the following hydrogen production methods:

- Electrolysis powered by renewable electricity
- Biomass gasification
- Steam methane reforming (SMR) of feedstock renewable natural gas (biomethane)

Carbon intensity can be presented in multiple ways. For this study, emissions are presented in kilograms of carbon dioxide equivalent per kilograms of hydrogen produced (kg CO_2e/kg H_2) for comparison with the carbon intensity of 4 kg CO_2e/kg H_2 which is part of the CPUC definition of clean renewable hydrogen. The table below presents a summary of life cycle carbon intensities for the various production methodologies from existing literature which are discussed in more detail in the sections below.

Table B-1 Summary of Hydrogen Production Carbon Intensity Estimates from Existing Research

Production	Feedstock	Carbon Intensity Cradle-to-Gate (kg CO_2e/kg H2)	Study
Electrolysis	Renewable Electricity	0	GREET
Electrolysis	Solar-powered Electricity	2.3	Cho et al. 2022
Biomass Gasification	Not Specified	1.61	GREET
Biomass Gasification	Average of five biomass types	2.46	Cho et al. 2022
Steam Methane Reforming	Landfill Gas	3.57	Cho et al. 2022

<u>Electrolysis Powered by Renewable Electricity</u>

Per the GREET model, GHG emissions associated with electrolysis powered by renewable electricity are zero. GREET does not account for embedded carbon associated with solar panels or wind turbines. A study by Cho et al. published in 2022 found that solar-powered electrolysis may have a carbon intensity of 2.3 kg CO_2e/kg H_2 largely due to the manufacture of the solar cells.[140] As demonstrated, carbon intensity for electrolysis powered by renewable electricity will vary based on how the required technology is manufactured, even when Scope 1 and Scope 2 emissions are zero.

[140] Cho, H.H. et al. 2022, Environmental impact assessments, Ibid

Research has also noted that electrolysis requires high quality water as a feedstock, which may require treatment on site potentially increasing the energy demand[141] and impact overall carbon intensity.

Biomass Gasification

In the direct GHG emission calculations, we assume that biomass gasification is a "carbon neutral" process. Assuming no grid electricity usage or natural gas combustion, GREET was used to calculate indirect GHG emissions associated with biogas gasification, assuming that 36.3 kg of biomass is needed to produce 1 kg H_2.[142] Approximately 1.61 kg CO_2e/kg H_2 is emitted by Scope 3 indirect sources (cultivation, harvesting, transport, drying, and chipping) for the biomass gasification process. Cho et. al (2022) calculated a cradle-to-gate carbon intensity of 2.46 kg CO_2e/kg H_2 for biomass gasification as an average of carbon intensity values from six different studies encompassing the following types of biomass: corn stover, unspecified forest residue, poplar, spruce, and willow.[143]

The carbon intensity of biomass gasification can vary based on a variety of key inputs including, but not limited to, type of biomass feedstock, whether fossil energy is used in the biomass lifecycle, biomass transport, pre-treatment such as drying and chipping, and the use of synthetic fertilizers. Fossil energy may be used in the agricultural process such as diesel fuel in agricultural machinery and vehicles. The use of synthetic fertilizers during the biomass lifecycle can cause acidification which can impact the carbon intensity of that biomass.[144]

Steam Methane Reforming

In the SMR process, hydrogen is produced through a reaction of gaseous methane and steam to produce a carbon monoxide (CO) – hydrogen synthetic gas (syngas). The CO in the syngas is then further reacted with steam to produce CO_2 and additional hydrogen. Note that if the steam is exported for other uses, a process credit may be calculated, assuming emissions avoidance from a natural gas boiler that would have produced an equal amount of steam. SMR being considered would use renewable natural gas as feedstock. The direct emissions calculations completed within this study assume that the produced hydrogen is utilized as fuel for heat generation in the SMR process. However, no studies were identified that assume the use of hydrogen as fuel.

Cho et al. evaluated cradle-to-gate carbon intensity for utilizing landfill gas as feedstock for the SMR process. They took an average of the carbon intensities from three landfill gas related studies, one of which specified an assumed leakage rate of 1% CH_4, while the other two did not specify leakage rate assumptions. The cradle-to-gate carbon intensity for SMR of landfill gas was estimated to be 3.57 kg CO_2e/kg H_2.[145] The value presented in this section may not appropriately represent SMR utilizing renewable natural gas as

[141] Mehmeti, A.et al. 2018, Life Cycle Assessment, Ibid
[142] Argonne National Laboratory, 2022b, Hydrogen Life-Cycle Analysis, Ibid
[143] Cho, H.H. et al. 2022, Environmental impact assessments, Ibid
[144] Cho, H.H. et al. 2022, Environmental impact assessments, Ibid
[145] Cho, H.H. et al. 2022, Environmental impact assessments, Ibid

feedstock since the renewable natural gas is typically derived from dairy farms rather than landfills. The average carbon intensity for manure dairy farms is considerably lower than landfill gas estimates found in the study, 3.57 kg CO2e/kg H_2. The CI for manure dairy farms on average is several orders of magnitude lower at approximately –322 kg CO2e/kg H_2.[146]

Production efficiency is a highly impactful variable when determining lifecycle carbon intensity from any SMR process. Cho et al. (2022) found that direct carbon intensity from SMR (using natural gas as feedstock) decreased by 6% when the efficiency was increased by 5% and decreased by 11% when the efficiency was increased by 10%.[147] A study by Nikolaidis and Poullikkas published in 2017 noted that the average production efficiency for existing SMR facilities ranges from 74% to 85%. Increasing the production efficiency of an SMR process reduces the carbon intensity.[148]

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[146] CARB, 2024d, LCFS Pathway Certified Carbon Intensities, https://ww2.arb.ca.gov/resources/documents/lcfs-pathway-certified-carbon-intensities

[147] Cho, H.H. et al. 2022, Environmental impact assessments, Ibid

[148] Nikolaidis, P. and A. Poullikkas, 2017, A comparative overview of hydrogen production processes, Renewable and Sustainable Energy Reviews 67: 597-611, https://doi.org/10.1016/j.rser.2016.09.044

Appendix C: GHG Emission Calculations Spreadsheets

APPENDIX C – GHG RESULTS, CALCULATIONS, AND DATA

DESCRIPTION

Appendix C contains select PDF printouts of the GHG results, calculations, and data.

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* This tab is represented by a sample pdf calculation sheet depicting a specific calculation scenario.

Appendix C.1:

Compiled Results

GHG Results, Calculations, and Data

	B	C	I	J	K	L	M	N	O	P
1										
2	**Tab Contents**									
	This tab includes the acronym PRJ. This refers to the project (PRJ) scenario used in the calculation process (particularly for stationary sources). The PRJ scenario encompasses emissions for a sector or subsector including hydrogen adoption. For end-users, the PRJ scenarios are sector-wide representations of emissions, therefore PRJ scenario emissions will encompass emissions from sources that switched to hydrogen or blended fuels and emissions from sources that remained combusting fossil fuels. For stationary sources (industrial and power), PRJ scenarios were used to develop change in emissions results by subtracting the baseline from the project scenario emissions. For mobility, change in emissions were developed without considering a PRJ scenario, but this information was still developed and included for consistency within the end-user results. The key findings reported in this study were change in emissions (due to hydrogen adoption either at a market level or as supplied by Angeles Link). While PRJ scenario information was used to develop certain results, this information is secondary to the core results of this study.									
4										
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7	**Demand Scenario Hydrogen GHG Summary**									
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10	**Change in GHG (MT CO2e/yr) - Conservative**									
11			**Year**							
12	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
13	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Industry (Hard-to-Electrify)	FoodBeverage	-74,243.7	-85,048.5	-94,982.6	-104,049.4	-112,271.5	-119,812.4	-126,710.9	-133,017.0
15	Industry (Hard-to-Electrify)	Metals	-48,792.3	-54,892.5	-60,582.7	-65,880.0	-70,832.2	-75,436.1	-79,729.2	-83,719.0
16	Industry (Hard-to-Electrify)	StoneGlassCement	-131,406.3	-148,786.0	-164,766.6	-179,402.2	-192,932.5	-205,261.5	-216,444.2	-226,876.4
17	Industry (Hard-to-Electrify)	Paper	-15,689.1	-18,610.1	-21,317.5	-23,820.0	-26,127.6	-28,251.2	-30,202.3	-31,993.1
18	Industry (Hard-to-Electrify)	Chemicals	-6,970.7	-8,327.1	-9,590.2	-10,764.1	-11,853.2	-12,862.2	-13,796.0	-14,659.5
19	Industry (Hard-to-Electrify)	AeroSpaceDefense	-2,501.9	-2,963.2	-3,389.4	-3,781.9	-4,142.4	-4,472.7	-4,774.7	-5,050.6
20	Power	PeakerBaseload	-37,204.2	-86,302.9	-155,040.9	-243,418.2	-351,434.8	-479,090.7	-632,108.3	-806,297.9
21	Power	Cogeneration	-5,740.6	-18,428.5	-37,101.8	-61,760.5	-92,404.8	-129,034.5	-173,141.6	-223,701.3
22	Mobility	MDV	-87,326.8	-124,521.2	-174,764.2	-239,324.7	-319,684.4	-416,968.9	-513,151.2	-606,636.5
23	Mobility	HDV	-402,881.0	-538,039.3	-761,776.2	-1,080,498.5	-1,501,295.2	-2,031,049.5	-2,529,066.5	-2,995,412.1
24	Mobility	Bus	-389,927.9	-508,728.1	-642,711.7	-790,219.7	-950,177.7	-1,121,481.1	-1,368,212.3	-1,603,369.0
25	Mobility	Agriculture	-7,333.8	-10,313.4	-13,477.0	-16,804.4	-20,279.0	-23,885.4	-28,520.3	-34,273.7
26	Mobility	CHC	-1,932.0	-3,132.7	-4,275.4	-5,333.2	-6,317.5	-17,257.0	-27,929.3	-36,593.4
27	Mobility	CHE	-29,804.3	-40,432.4	-50,398.6	-59,619.4	-68,256.7	-76,376.8	-86,661.2	-99,392.2
28	Mobility	Construction & Mining	-15,929.0	-24,162.4	-37,380.3	-55,468.3	-78,079.8	-104,929.2	-125,074.0	-146,702.1
29	Mobility	GSE	-3,846.5	-5,618.8	-7,919.4	-10,839.2	-14,387.2	-18,598.1	-22,178.1	-25,889.5
30	Total End-User	All End-User	-1,261,530.3	-1,678,306.8	-2,239,474.4	-2,950,983.9	-3,820,476.5	-4,864,767.0	-5,977,700.0	-7,073,583.4
31	Infrastructure	Storage (maximum)	237.0	315.8	424.0	562.7	733.8	941.4	1,157.1	1,372.3
33	Infrastructure	Production (maximum)	1,119.9	1,492.2	2,003.1	2,658.9	3,467.1	4,448.0	5,467.2	6,483.8
34	Total Infrastructure	All Infrastructure	1,965.7	2,619.1	3,515.8	4,666.8	6,085.4	7,807.1	9,595.9	11,380.1
35	Overall Project	Overall Project	-1,259,564.6	-1,675,687.7	-2,235,958.6	-2,946,317.1	-3,814,391.2	-4,856,959.9	-5,968,104.1	-7,062,203.2

	B	C	Q	R	S	T	U	V	W	X
1										
2	**Tab Contents**									
4	This tab includes the acronym PRJ. This refers to the project (PRJ) scenario used in the calculation process (particularly for stationary sources). The PRJ scenario encompasses emissions for a sector or subsector including hydrogen adoption. For end-users, the PRJ scenarios are sector-wide representations of emissions, therefore PRJ scenario emissions will encompass emissions from sources that switched to hydrogen or blended fuels and emissions from sources that remained combusting fossil fuels. For stationary sources (industrial and power), PRJ scenarios were used to develop change in emissions results by subtracting the baseline from the project scenario emissions. For mobility, change in emissions were developed without considering a PRJ scenario, but this information was still developed and included for consistency within the end-user results. The key findings reported in this study were change in emissions (due to hydrogen adoption either at a market level or as supplied by Angeles Link). While PRJ scenario information was used to develop certain results, this information is secondary to the core results of this study.									
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13	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Industry (Hard-to-Electrify)	FoodBeverage	-138,642.4	-143,729.0	-151,927.4	-159,412.4	-166,245.6	-172,483.8	-178,179.3	-183,379.5
15	Industry (Hard-to-Electrify)	Metals	-87,433.3	-90,879.6	-94,182.1	-97,256.9	-100,125.1	-102,803.4	-105,302.0	-107,456.3
16	Industry (Hard-to-Electrify)	StoneGlassCement	-236,216.3	-244,698.8	-252,628.0	-259,918.9	-266,569.3	-272,666.6	-278,265.7	-283,375.5
17	Industry (Hard-to-Electrify)	Paper	-33,635.5	-35,141.4	-37,529.8	-39,733.3	-41,766.5	-43,642.7	-45,374.3	-46,972.9
18	Industry (Hard-to-Electrify)	Chemicals	-15,457.8	-16,195.7	-17,387.7	-18,495.0	-19,523.8	-20,479.9	-21,368.4	-22,194.2
19	Industry (Hard-to-Electrify)	AeroSpaceDefense	-5,302.4	-5,532.0	-5,896.3	-6,231.4	-6,539.6	-6,823.1	-7,084.1	-7,324.2
20	Power	PeakerBaseload	-1,001,659.6	-1,218,193.4	-1,455,899.2	-1,729,274.1	-2,026,097.0	-2,346,368.2	-2,690,087.4	-3,057,254.9
21	Power	Cogeneration	-280,713.7	-344,178.6	-414,096.1	-494,612.7	-582,275.5	-677,084.6	-779,040.0	-888,141.6
22	Mobility	MDV	-698,108.3	-788,235.4	-876,712.0	-963,777.8	-1,048,769.4	-1,132,776.6	-1,214,073.5	-1,293,830.0
23	Mobility	HDV	-3,433,983.5	-3,848,370.3	-4,242,367.5	-4,693,030.6	-5,205,575.4	-5,778,954.4	-6,410,741.7	-7,098,317.5
24	Mobility	Bus	-1,822,461.9	-2,026,597.5	-2,216,888.3	-2,394,181.6	-2,561,013.1	-2,718,943.5	-2,867,154.3	-3,006,862.1
25	Mobility	Agriculture	-41,170.7	-49,225.6	-58,446.9	-67,680.7	-76,840.6	-85,916.7	-94,905.2	-103,802.7
26	Mobility	CHC	-43,303.6	-48,430.8	-52,334.5	-56,059.6	-59,814.3	-63,622.9	-67,471.4	-71,341.2
27	Mobility	CHE	-114,298.8	-131,449.4	-150,506.7	-169,668.6	-187,786.5	-204,912.0	-221,154.3	-236,617.5
28	Mobility	Construction & Mining	-166,420.5	-184,897.5	-202,779.9	-219,541.6	-235,509.9	-250,804.3	-265,550.0	-279,883.7
29	Mobility	GSE	-29,324.9	-32,498.3	-35,429.8	-37,581.8	-39,540.4	-41,341.6	-42,996.0	-44,514.4
30	Total End-User	All End-User	-8,148,133.3	-9,208,253.3	-10,265,012.2	-11,406,456.9	-12,623,992.0	-13,919,624.2	-15,288,747.6	-16,731,268.5
31	Infrastructure	Storage (maximum)	1,587.0	1,802.5	2,021.6	2,264.4	2,527.6	2,811.4	3,114.9	3,438.1
33	Infrastructure	Production (maximum)	7,498.3	8,516.7	9,551.8	10,699.1	11,942.7	13,283.4	14,717.6	16,244.7
34	Total Infrastructure	All Infrastructure	13,160.9	14,948.3	16,765.0	18,778.7	20,961.5	23,314.7	25,832.0	28,512.2
35	Overall Project	Overall Project	-8,134,972.5	-9,193,305.0	-10,248,247.1	-11,387,678.2	-12,603,030.5	-13,896,309.6	-15,262,915.6	-16,702,756.3

	B	C	I	J	K	L	M	N	O	P
36										
37	**Change in GHG (MT CO2e/yr) - Moderate**									
38			**Year**							
39	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
40	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	Industry (Hard-to-Electrify)	FoodBeverage	-151,475.4	-177,881.4	-202,669.5	-226,098.5	-248,697.3	-270,322.7	-290,674.0	-310,798.4
42	Industry (Hard-to-Electrify)	Metals	-59,627.8	-67,616.6	-75,147.9	-82,184.0	-89,721.0	-96,655.5	-103,905.0	-110,682.9
43	Industry (Hard-to-Electrify)	StoneGlassCement	-136,325.1	-158,704.5	-177,276.2	-191,352.9	-209,803.5	-224,363.4	-233,431.5	-252,704.2
44	Industry (Hard-to-Electrify)	Paper	-17,647.6	-21,339.4	-24,861.1	-28,238.8	-31,486.3	-34,616.9	-37,598.6	-40,487.3
45	Industry (Hard-to-Electrify)	Chemicals	-7,946.3	-9,794.2	-11,660.9	-13,571.1	-15,532.4	-17,495.0	-19,480.1	-21,551.7
46	Industry (Hard-to-Electrify)	AeroSpaceDefense	-3,163.3	-3,861.2	-4,561.6	-5,202.3	-5,847.1	-6,467.1	-7,017.3	-7,567.6
47	Power	PeakerBaseload	-86,444.9	-200,526.8	-360,241.1	-565,587.9	-816,567.0	-1,113,178.6	-1,468,718.6	-1,873,452.3
48	Power	Cogeneration	-13,338.4	-42,819.0	-86,206.9	-143,502.1	-214,704.7	-299,814.6	-402,298.6	-519,775.3
49	Mobility	MDV	-175,108.0	-227,175.4	-292,497.5	-371,624.8	-465,477.2	-574,621.6	-680,454.4	-781,388.6
50	Mobility	HDV	-1,208,643.1	-1,462,952.1	-1,807,246.9	-2,247,497.2	-2,790,818.1	-3,443,602.7	-4,056,838.1	-4,631,721.9
51	Mobility	Bus	-805,961.9	-944,977.0	-1,089,036.0	-1,237,448.1	-1,390,127.3	-1,546,806.8	-1,788,550.7	-2,019,365.7
52	Mobility	Agriculture	-11,967.6	-16,464.2	-21,359.3	-26,634.7	-32,274.3	-38,262.4	-44,895.5	-52,194.1
53	Mobility	CHC	-2,415.1	-3,927.4	-5,378.7	-6,733.4	-8,003.8	-22,058.0	-35,768.1	-46,898.8
54	Mobility	CHE	-34,892.3	-46,634.3	-59,432.2	-73,109.2	-87,782.1	-103,455.0	-119,639.0	-136,500.0
55	Mobility	Construction & Mining	-41,493.5	-53,891.1	-69,436.4	-88,106.7	-109,720.7	-134,109.0	-151,861.8	-172,588.9
56	Mobility	GSE	-6,273.3	-8,628.2	-11,450.8	-14,815.6	-18,702.2	-23,126.9	-26,864.3	-30,767.6
58	Infrastructure	Storage (maximum)	510.5	650.8	828.7	1,045.4	1,305.6	1,611.3	1,935.8	2,272.4
59	Infrastructure	Transmission (maximum)	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8
60	Infrastructure	Production (maximum)	2,412.2	3,074.8	3,915.5	4,939.4	6,168.7	7,613.4	9,146.4	10,736.9
61	Total Infrastructure	All Infrastructure	4,233.8	5,396.7	6,872.3	8,669.5	10,827.1	13,362.8	16,053.5	18,845.0
62	Overall Project	Overall Project	-2,752,216.5	-3,433,167.8	-4,280,140.0	-5,298,222.3	-6,505,735.7	-7,912,466.5	-9,425,077.8	-10,958,832.7

	B	C	Q	R	S	T	U	V	W	X
36										
37	**Change in GHG (MT CO2e/yr) - Moderate**									
38			**Year**							
39	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
40	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	Industry (Hard-to-Electrify)	FoodBeverage	-330,632.5	-349,543.3	-372,737.6	-395,102.3	-416,404.7	-436,915.8	-456,231.2	-474,488.0
42	Industry (Hard-to-Electrify)	Metals	-117,378.5	-123,794.2	-130,526.1	-136,942.3	-143,351.9	-149,837.0	-155,958.9	-161,661.1
43	Industry (Hard-to-Electrify)	StoneGlassCement	-261,150.4	-266,227.9	-270,465.0	-277,899.0	-283,524.7	-289,615.1	-296,463.6	-300,864.4
44	Industry (Hard-to-Electrify)	Paper	-43,264.9	-46,008.5	-49,836.7	-53,556.7	-57,276.6	-60,779.7	-64,147.3	-67,380.5
45	Industry (Hard-to-Electrify)	Chemicals	-23,662.5	-25,842.7	-28,934.7	-32,122.6	-35,365.1	-38,682.6	-42,044.8	-45,342.9
46	Industry (Hard-to-Electrify)	AeroSpaceDefense	-8,070.3	-8,606.5	-9,383.6	-10,137.2	-10,875.5	-11,548.3	-12,216.2	-12,895.8
47	Power	PeakerBaseload	-2,327,379.8	-2,830,501.1	-3,382,816.3	-4,018,009.2	-4,707,684.4	-5,451,841.9	-6,250,481.8	-7,103,604.0
48	Power	Cogeneration	-652,244.8	-799,707.1	-962,162.1	-1,149,244.2	-1,352,930.9	-1,573,222.1	-1,810,117.8	-2,063,618.0
49	Mobility	MDV	-878,315.2	-972,007.0	-1,062,184.6	-1,151,171.1	-1,238,333.1	-1,324,848.3	-1,408,789.3	-1,491,416.7
50	Mobility	HDV	-5,173,313.2	-5,686,238.2	-6,175,446.8	-6,685,738.4	-7,220,535.1	-7,780,843.8	-8,366,218.8	-8,975,762.6
51	Mobility	Bus	-2,235,092.6	-2,436,830.2	-2,625,568.6	-2,802,024.4	-2,968,824.7	-3,127,508.1	-3,276,980.1	-3,418,441.0
52	Mobility	Agriculture	-60,157.1	-68,779.9	-78,055.8	-87,339.9	-96,575.5	-105,748.7	-114,849.7	-123,869.7
53	Mobility	CHC	-55,519.9	-62,107.7	-67,123.7	-71,355.2	-75,078.7	-78,429.6	-81,492.1	-84,325.3
54	Mobility	CHE	-153,809.9	-171,798.4	-190,199.2	-208,807.1	-226,490.0	-243,304.8	-259,350.3	-274,720.5
55	Mobility	Construction & Mining	-192,014.7	-210,518.9	-228,550.5	-245,687.9	-262,286.0	-278,420.3	-294,160.9	-309,592.8
56	Mobility	GSE	-34,384.6	-37,729.2	-40,821.0	-43,066.8	-45,110.3	-46,989.1	-48,713.7	-50,295.4
58	Infrastructure	Storage (maximum)	2,615.4	2,968.0	3,334.9	3,737.8	4,165.3	4,618.7	5,097.4	5,600.7
59	Infrastructure	Transmission (maximum)	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2
60	Infrastructure	Production (maximum)	12,357.3	14,023.7	15,757.1	17,660.7	19,680.6	21,822.8	24,084.8	26,462.7
61	Total Infrastructure	All Infrastructure	21,689.1	24,614.0	27,656.5	30,997.5	34,542.8	38,302.8	42,272.9	46,446.6
62	Overall Project	Overall Project	-12,490,317.2	-14,033,897.4	-15,606,334.9	-17,294,140.2	-19,060,994.1	-20,913,243.5	-22,847,229.9	-24,861,536.7

	B	C	I	J	K	L	M	N	O	P
63										
64	**Change in GHG (MT CO2e/yr) - Ambitious**									
65			**Year**							
66	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
67	Industry (Hard-to-Electrify)	Refineries	-754,582.7	-873,646.5	-977,231.8	-1,078,995.0	-1,174,725.4	-1,255,060.8	-1,294,917.3	-1,413,520.3
68	Industry (Hard-to-Electrify)	FoodBeverage	-151,475.4	-177,881.4	-202,669.5	-226,098.5	-248,697.3	-270,322.7	-290,674.0	-310,798.4
69	Industry (Hard-to-Electrify)	Metals	-59,627.8	-67,616.6	-75,147.9	-82,184.0	-89,721.0	-96,655.5	-103,905.0	-110,682.9
70	Industry (Hard-to-Electrify)	StoneGlassCement	-136,325.1	-158,704.5	-177,276.2	-191,352.9	-209,803.5	-224,363.4	-233,431.5	-252,704.2
71	Industry (Hard-to-Electrify)	Paper	-17,647.6	-21,339.4	-24,861.1	-28,238.8	-31,486.3	-34,616.9	-37,598.6	-40,487.3
72	Industry (Hard-to-Electrify)	Chemicals	-7,946.3	-9,794.2	-11,660.9	-13,571.1	-15,532.4	-17,495.0	-19,480.1	-21,551.7
73	Industry (Hard-to-Electrify)	AeroSpaceDefense	-3,163.3	-3,861.2	-4,561.6	-5,202.3	-5,847.1	-6,467.1	-7,017.3	-7,567.6
74	Power	PeakerBaseload	-140,545.7	-326,024.8	-585,695.0	-919,556.3	-1,327,608.8	-1,809,852.3	-2,387,903.9	-3,045,936.9
75	Power	Cogeneration	-21,686.2	-69,616.9	-140,158.7	-233,311.7	-349,075.8	-487,451.1	-654,073.8	-845,072.4
76	Mobility	MDV	-325,218.8	-409,569.9	-504,249.2	-607,527.6	-718,437.2	-835,726.1	-946,962.4	-1,051,003.8
77	Mobility	HDV	-2,464,055.3	-2,930,681.9	-3,463,300.4	-4,065,318.1	-4,742,326.1	-5,498,351.6	-6,206,793.7	-6,872,901.0
78	Mobility	Bus	-1,491,446.1	-1,694,897.7	-1,872,940.7	-2,027,402.6	-2,160,973.3	-2,275,840.1	-2,487,425.3	-2,690,233.3
79	Mobility	Agriculture	-18,261.5	-24,801.1	-31,924.0	-39,602.8	-47,812.7	-56,529.2	-65,420.5	-74,429.1
80	Mobility	CHC	-2,454.1	-4,148.0	-5,864.7	-7,552.1	-9,208.9	-26,996.8	-44,343.3	-58,429.1
81	Mobility	CHE	-49,975.6	-65,697.2	-83,466.0	-103,016.3	-124,484.4	-147,851.7	-169,756.5	-190,305.9
83	Mobility	GSE	-11,114.9	-14,776.1	-18,662.8	-22,796.3	-27,079.0	-31,475.8	-35,129.2	-39,014.0
84	Mobility	All Mobility Sub-sectors	-4,436,290.1	-5,235,936.0	-6,090,060.0	-7,001,941.4	-7,978,946.1	-9,042,108.5	-10,139,476.7	-11,179,148.6
85	Total End-User	All End-User	-5,729,290.2	-6,944,421.5	-8,289,322.8	-9,780,452.0	-11,431,443.6	-13,244,393.2	-15,168,478.1	-17,227,470.2
86	Infrastructure	Storage (maximum)	1,999.7	2,349.0	2,734.2	3,159.6	3,628.5	4,140.8	4,673.4	5,252.9
87	Infrastructure	Transmission (maximum)	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9
88	Infrastructure	Production (maximum)	9,448.3	11,099.0	12,918.6	14,928.7	17,144.3	19,564.7	22,081.5	24,819.2
89	Total Infrastructure	All Infrastructure	16,583.4	19,480.6	22,674.4	26,202.4	30,091.2	34,339.4	38,756.9	43,561.9
92	Overall Project	Overall Project	-5,712,706.8	-6,924,940.9	-8,266,648.3	-9,754,249.7	-11,401,352.4	-13,210,053.8	-15,129,721.3	-17,183,908.2
93										
94	**GHG Summary**									
95			**Year**							
96	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
97	GHG Change - Conservative (MT C	Total	-1,261,530.3	-1,678,306.8	-2,239,474.4	-2,950,983.9	-3,820,476.5	-4,864,767.0	-5,977,700.0	-7,073,583.4
98	GHG Change - Moderate (MT CO2	Total	-2,762,723.7	-3,447,192.8	-4,298,463.0	-5,321,707.4	-6,535,264.9	-7,948,956.3	-9,467,995.7	-11,008,445.3
99	GHG Change - Ambitious (MT CO2	Total	-5,729,290.2	-6,944,421.5	-8,289,322.8	-9,780,452.0	-11,431,443.6	-13,244,393.2	-15,168,478.1	-17,227,470.2
100										
102	**GHG Summary**									
103			**Year**							
104	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
105	GHG Change - Conservative (milli	Total	-1.3	-1.7	-2.2	-3.0	-3.8	-4.9	-6.0	-7.1
106	GHG Change - Moderate (million	Total	-2.8	-3.4	-4.3	-5.3	-6.5	-7.9	-9.5	-11.0
107	GHG Change - Ambitious (million	Total	-5.7	-6.9	-8.3	-9.8	-11.4	-13.2	-15.2	-17.2
108										

	B	C	Q	R	S	T	U	V	W	X
63										
64	**Change in GHG (MT CO2e/yr) - Ambitious**									
65			**Year**							
66	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
67	Industry (Hard-to-Electrify)	Refineries	-1,470,923.5	-1,526,202.2	-1,590,356.9	-1,632,117.5	-1,681,020.4	-1,740,466.4	-1,786,295.8	-1,831,512.7
68	Industry (Hard-to-Electrify)	FoodBeverage	-330,632.5	-349,543.3	-372,737.6	-395,102.3	-416,404.7	-436,915.8	-456,231.2	-474,488.0
69	Industry (Hard-to-Electrify)	Metals	-117,378.5	-123,794.2	-130,526.1	-136,942.3	-143,351.9	-149,837.0	-155,958.9	-161,661.1
70	Industry (Hard-to-Electrify)	StoneGlassCement	-261,150.4	-266,227.9	-270,465.0	-277,899.0	-283,524.7	-289,615.1	-296,463.6	-300,864.4
71	Industry (Hard-to-Electrify)	Paper	-43,264.9	-46,008.5	-49,836.7	-53,556.7	-57,276.6	-60,779.7	-64,147.3	-67,380.5
72	Industry (Hard-to-Electrify)	Chemicals	-23,662.5	-25,842.7	-28,934.7	-32,122.6	-35,365.1	-38,682.6	-42,044.8	-45,342.9
73	Industry (Hard-to-Electrify)	AeroSpaceDefense	-8,070.3	-8,606.5	-9,383.6	-10,137.2	-10,875.5	-11,548.3	-12,216.2	-12,895.8
74	Power	PeakerBaseload	-3,783,951.2	-4,601,946.8	-5,499,923.8	-6,532,646.9	-7,653,949.7	-8,863,832.0	-10,162,294.1	-11,549,335.7
75	Power	Cogeneration	-1,060,446.9	-1,300,197.1	-1,564,323.2	-1,868,489.2	-2,199,651.5	-2,557,810.1	-2,942,965.0	-3,355,116.3
76	Mobility	MDV	-1,148,995.7	-1,241,808.6	-1,329,178.3	-1,415,908.2	-1,501,386.9	-1,586,871.3	-1,670,192.2	-1,752,694.6
77	Mobility	HDV	-7,502,943.2	-8,102,397.2	-8,677,218.8	-9,232,419.3	-9,768,940.7	-10,290,025.4	-10,797,409.3	-11,292,094.1
78	Mobility	Bus	-2,881,174.1	-3,061,245.0	-3,231,107.1	-3,391,153.3	-3,543,976.3	-3,690,941.7	-3,830,489.7	-3,963,686.9
79	Mobility	Agriculture	-83,522.5	-92,672.5	-101,853.9	-111,043.1	-120,219.9	-129,365.0	-138,461.5	-147,493.7
80	Mobility	CHC	-69,343.4	-77,687.9	-84,045.7	-88,885.6	-92,565.8	-95,356.1	-97,459.6	-99,029.3
81	Mobility	CHE	-209,321.6	-227,217.2	-243,803.1	-260,802.7	-277,101.8	-292,758.7	-307,852.8	-322,458.9
83	Mobility	GSE	-42,624.4	-45,971.5	-49,071.1	-51,266.7	-53,263.8	-55,098.7	-56,780.9	-58,320.8
84	Mobility	All Mobility Sub-sectors	-12,159,479.1	-13,088,805.5	-13,974,044.7	-14,826,611.8	-15,649,738.5	-16,449,654.4	-17,224,643.0	-17,978,360.2
85	Total End-User	All End-User	-19,258,959.7	-21,337,174.7	-23,490,532.3	-25,765,625.5	-28,131,158.4	-30,599,141.6	-33,143,259.9	-35,776,957.6
86	Infrastructure	Storage (maximum)	5,832.4	6,432.9	7,062.3	7,706.2	8,382.1	9,092.6	9,830.5	10,599.2
87	Infrastructure	Transmission (maximum)	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9
88	Infrastructure	Production (maximum)	27,557.4	30,394.8	33,368.7	36,411.2	39,604.5	42,961.8	46,448.1	50,079.9594
89	Total Infrastructure	All Infrastructure	48,368.0	53,348.2	58,567.9	63,907.9	69,512.8	75,405.3	81,524.5	87,899.0
92	Overall Project	Overall Project	-19,210,591.8	-21,283,826.5	-23,431,964.4	-25,701,717.6	-28,061,645.6	-30,523,736.3	-33,061,735.4	-35,689,058.6
93										
94	**GHG Summary**									
95			**Year**							
96	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
97	GHG Change - Conservative (MT (	Total	-8,148,133.3	-9,208,253.3	-10,265,012.2	-11,406,456.9	-12,623,992.0	-13,919,624.2	-15,288,747.6	-16,731,268.5
98	GHG Change - Moderate (MT CO2	Total	-12,546,391.0	-14,096,240.6	-15,674,812.4	-17,368,204.4	-19,140,647.2	-20,998,535.3	-22,938,216.6	-24,958,278.7
99	GHG Change - Ambitious (MT CO2	Total	-19,258,959.7	-21,337,174.7	-23,490,532.3	-25,765,625.5	-28,131,158.4	-30,599,141.6	-33,143,259.9	-35,776,957.6
100										
102	**GHG Summary**									
103			**Year**							
104	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
105	GHG Change - Conservative (milli	Total	-8.1	-9.2	-10.3	-11.4	-12.6	-13.9	-15.3	-16.7
106	GHG Change - Moderate (million	Total	-12.5	-14.1	-15.7	-17.4	-19.1	-21.0	-22.9	-25.0
107	GHG Change - Ambitious (million	Total	-19.3	-21.3	-23.5	-25.8	-28.1	-30.6	-33.1	-35.8
108										

	B	C	I	J	K	L	M	N	O	P
110	**End-User Reductions Attributable to End-Use Sectors (MT CO2e/yr)**									
111			**Year**							
112	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
113	% Attributable to Mobility - Conservative		74.4%	74.8%	75.6%	76.5%	77.4%	78.3%	78.6%	78.4%
114	% Attributable to Mobility - Moderate		82.8%	80.2%	78.1%	76.4%	75.0%	74.0%	72.9%	71.5%
115	% Attributable to Mobility - Ambitious		77.4%	75.4%	73.5%	71.6%	69.8%	68.3%	66.8%	64.9%
116	% Attributable to Industrial - Conservative		22.2%	19.0%	15.8%	13.1%	10.9%	9.2%	7.9%	7.0%
117	% Attributable to Industrial - Moderate		13.6%	12.7%	11.5%	10.3%	9.2%	8.2%	7.3%	6.8%
118	% Attributable to Industrial - Ambitious		19.7%	18.9%	17.8%	16.6%	15.5%	14.4%	13.1%	12.5%
119	% Attributable to Power Gen - Conservative		3%	6%	9%	10%	12%	13%	13%	15%
120	% Attributable to Power Gen - Moderate		4%	7%	10%	13%	16%	18%	20%	22%
121	% Attributable to Power Gen - Ambitious		3%	6%	9%	12%	15%	17%	20%	23%
122										
123	**Infrastructure as Percent of End-User Reductions**									
124			**Year**							
125	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
126	% Storage/End-User Reductions	Ambitious - Max	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%
127	% Transmission/End-User Reduct	Ambitious - Max	-0.09%	-0.09%	-0.08%	-0.08%	-0.08%	-0.08%	-0.08%	-0.08%
128	% Production/End-User Reductio	Ambitious - Max	-0.16%	-0.16%	-0.16%	-0.15%	-0.15%	-0.15%	-0.15%	-0.14%
129	% All Infrastructure	Ambitious - Max	-0.29%	-0.28%	-0.27%	-0.27%	-0.26%	-0.26%	-0.26%	-0.25%
130										
131	**Infrastructure as Percent of End-User Reductions**									
132			**Year**							
133	**End-User Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
134	% Storage/End-User Reductions	Conservative - Max	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%
135	% Transmission/End-User Reduct	Conservative - Max	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%
136	% Production/End-User Reductio	Conservative - Max	-0.09%	-0.09%	-0.09%	-0.09%	-0.09%	-0.09%	-0.09%	-0.09%
137	% All Infrastructure	Conservative - Max	-0.16%	-0.16%	-0.16%	-0.16%	-0.16%	-0.16%	-0.16%	-0.16%
138										

	B	C	Q	R	S	T	U	V	W	X
110	**End-User Reductions Attributable to End-Use Sectors (MT CO2e/yr)**									
111			**Year**							
112	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
113	% Attributable to Mobility - Conservative		77.9%	77.2%	76.3%	75.4%	74.6%	73.8%	73.2%	72.5%
114	% Attributable to Mobility - Moderate		70.0%	68.4%	66.8%	65.0%	63.4%	61.8%	60.4%	59.0%
115	% Attributable to Mobility - Ambitious		63.1%	61.3%	59.5%	57.5%	55.6%	53.8%	52.0%	50.3%
116	% Attributable to Industrial - Conservative		6.3%	5.8%	5.5%	5.1%	4.8%	4.4%	4.2%	3.9%
117	% Attributable to Industrial - Moderate		6.3%	5.8%	5.5%	5.2%	4.9%	4.7%	4.5%	4.3%
118	% Attributable to Industrial - Ambitious		11.7%	11.0%	10.4%	9.8%	9.3%	8.9%	8.5%	8.1%
119	% Attributable to Power Gen - Conservative		16%	17%	18%	19%	21%	22%	23%	23.6%
120	% Attributable to Power Gen - Moderate		24%	26%	28%	30%	32%	33%	35%	36.7%
121	% Attributable to Power Gen - Ambitious		25%	28%	30%	33%	35%	37%	40%	41.7%
122										
123	**Infrastructure as Percent of End-User Reductions**									
124			**Year**							
125	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
126	% Storage/End-User Reductions	Ambitious - Max	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%	-0.03%
127	% Transmission/End-User Reduct	Ambitious - Max	-0.08%	-0.08%	-0.08%	-0.08%	-0.08%	-0.08%	-0.08%	-0.08%
128	% Production/End-User Reductio	Ambitious - Max	-0.14%	-0.14%	-0.14%	-0.14%	-0.14%	-0.14%	-0.14%	-0.14%
129	% All Infrastructure	Ambitious - Max	-0.25%	-0.25%	-0.25%	-0.25%	-0.25%	-0.25%	-0.25%	-0.25%
130										
131	**Infrastructure as Percent of End-User Reductions**									
132			**Year**							
133	**End-User Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
134	% Storage/End-User Reductions	Conservative - Max	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%	-0.02%
135	% Transmission/End-User Reduct	Conservative - Max	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%	-0.05%
136	% Production/End-User Reductio	Conservative - Max	-0.09%	-0.09%	-0.09%	-0.09%	-0.09%	-0.10%	-0.10%	-0.10%
137	% All Infrastructure	Conservative - Max	-0.16%	-0.16%	-0.16%	-0.16%	-0.17%	-0.17%	-0.17%	-0.17%
138										

	Z	AA	AG	AH	AI	AJ	AK	AL	AM	AN
1										
6										
7			**Angeles Link Throughput Scenario GHG Summary**							
8										
9			**AL Change in GHG (MT CO2e/yr) - Low**							
10			**Year**							
11	**Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
12	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Industry (Hard-to-Electrify)	FoodBeverage	-19,932.5	-22,833.3	-25,500.4	-27,934.6	-30,142.0	-32,166.6	-34,018.6	-35,711.7
14	Industry (Hard-to-Electrify)	Metals	-13,099.5	-14,737.2	-16,264.9	-17,687.1	-19,016.6	-20,252.7	-21,405.3	-22,476.4
15	Industry (Hard-to-Electrify)	StoneGlassCement	-35,279.2	-39,945.2	-44,235.6	-48,164.9	-51,797.5	-55,107.5	-58,109.8	-60,910.5
16	Industry (Hard-to-Electrify)	Paper	-4,212.1	-4,996.3	-5,723.2	-6,395.1	-7,014.6	-7,584.7	-8,108.6	-8,589.3
17	Industry (Hard-to-Electrify)	Chemicals	-1,871.5	-2,235.6	-2,574.7	-2,889.9	-3,182.3	-3,453.2	-3,703.9	-3,935.7
18	Industry (Hard-to-Electrify)	AeroSpaceDefense	-671.7	-795.5	-910.0	-1,015.4	-1,112.1	-1,200.8	-1,281.9	-1,356.0
19	Power	PeakerBaseload	-9,988.4	-23,170.1	-41,624.5	-65,351.6	-94,351.3	-128,623.6	-169,705.0	-216,470.4
20	Power	Cogeneration	-1,541.2	-4,947.6	-9,960.9	-16,581.1	-24,808.3	-34,642.5	-46,484.1	-60,058.1
21	Mobility	MDV	-23,445.0	-33,430.8	-46,919.7	-64,252.6	-85,827.1	-111,945.5	-137,768.0	-162,866.4
22	Mobility	HDV	-108,163.3	-144,449.8	-204,517.5	-290,086.3	-403,059.5	-545,285.0	-678,989.9	-804,191.8
23	Mobility	Bus	-104,685.7	-136,580.5	-172,551.7	-212,153.8	-255,098.5	-301,089.1	-367,330.1	-430,463.7
24	Mobility	Agriculture	-1,968.9	-2,768.9	-3,618.2	-4,511.6	-5,444.4	-6,412.6	-7,657.0	-9,201.6
25	Mobility	CHC	-518.7	-841.0	-1,147.8	-1,431.8	-1,696.1	-4,633.1	-7,498.3	-9,824.4
26	Mobility	CHE	-8,001.7	-10,855.1	-13,530.7	-16,006.3	-18,325.2	-20,505.2	-23,266.3	-26,684.3
27	Mobility	Construction & Mining	-4,276.5	-6,487.0	-10,035.7	-14,891.8	-20,962.4	-28,170.8	-33,579.2	-39,385.8
28	Mobility	GSE	-1,032.7	-1,508.5	-2,126.2	-2,910.1	-3,862.6	-4,993.1	-5,954.2	-6,950.7
29	Infrastructure	Storage	63.6	84.8	113.8	151.1	197.0	252.7	310.7	368.4
30	Infrastructure	Transmission	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1
31	Infrastructure	Production	300.7	400.6	537.8	713.8	930.8	1194.2	1467.8	1740.7
33	Overall Project	Overall	-338,161.0	-449,879.4	-600,297.9	-791,011.0	-1,024,066.8	-1,303,969.9	-1,602,283.8	-1,896,021.5

	Z	AA	AG	AH	AI	AJ	AK	AL	AM	AN
34			**AL Change in GHG (MT CO2e/yr) - Medium**							
35			**Year**							
36	**Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
37	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	Industry (Hard-to-Electrify)	FoodBeverage	-47,144.0	-55,362.4	-63,077.3	-70,369.1	-77,402.6	-84,133.1	-90,467.1	-96,730.4
39	Industry (Hard-to-Electrify)	Metals	-18,558.1	-21,044.5	-23,388.5	-25,578.3	-27,924.1	-30,082.3	-32,338.6	-34,448.1
40	Industry (Hard-to-Electrify)	StoneGlassCement	-42,428.8	-49,394.0	-55,174.0	-59,555.2	-65,297.6	-69,829.1	-72,651.4	-78,649.7
41	Industry (Hard-to-Electrify)	Paper	-5,492.5	-6,641.5	-7,737.6	-8,788.8	-9,799.5	-10,773.9	-11,701.9	-12,600.9
42	Industry (Hard-to-Electrify)	Chemicals	-2,473.1	-3,048.3	-3,629.3	-4,223.8	-4,834.2	-5,445.0	-6,062.8	-6,707.6
43	Industry (Hard-to-Electrify)	AeroSpaceDefense	-984.5	-1,201.7	-1,419.7	-1,619.1	-1,819.8	-2,012.8	-2,184.0	-2,355.3
44	Power	PeakerBaseload	-26,904.4	-62,410.4	-112,118.6	-176,029.1	-254,141.9	-346,457.0	-457,112.5	-583,078.6
45	Power	Cogeneration	-4,151.4	-13,326.6	-26,830.3	-44,662.5	-66,823.0	-93,311.9	-125,208.3	-161,770.8
46	Mobility	MDV	-54,499.2	-70,704.3	-91,034.6	-115,661.6	-144,871.5	-178,840.7	-211,779.3	-243,193.3
47	Mobility	HDV	-376,168.6	-455,317.7	-562,473.4	-699,493.4	-868,592.4	-1,071,759.9	-1,262,618.5	-1,441,540.8
48	Mobility	Bus	-250,841.3	-294,107.2	-338,943.0	-385,133.6	-432,652.3	-481,416.0	-556,654.5	-628,491.6
49	Mobility	Agriculture	-3,724.7	-5,124.2	-6,647.7	-8,289.6	-10,044.8	-11,908.5	-13,972.9	-16,244.5
50	Mobility	CHC	-751.6	-1,222.3	-1,674.0	-2,095.7	-2,491.0	-6,865.2	-11,132.2	-14,596.4
51	Mobility	CHE	-10,859.6	-14,514.1	-18,497.2	-22,753.9	-27,320.6	-32,198.5	-37,235.5	-42,483.2
52	Mobility	Construction & Mining	-12,914.1	-16,772.6	-21,610.8	-27,421.7	-34,148.6	-41,739.0	-47,264.3	-53,715.2
53	Mobility	GSE	-1,952.5	-2,685.4	-3,563.8	-4,611.1	-5,820.7	-7,197.8	-8,361.0	-9,575.9
54	Infrastructure	Storage	158.9	202.5	257.9	325.4	406.3	501.5	602.5	707.2
55	Infrastructure	Transmission	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3
56	Infrastructure	Production	750.7	957.0	1,218.6	1,537.3	1,919.9	2,369.5	2,846.7	3,341.7
58	Overall Project	Overall	-858,530.8	-1,071,197.6	-1,335,681.1	-1,653,588.3	-2,030,614.9	-2,469,811.9	-2,941,748.4	-3,420,317.1

	Z	AA	AG	AH	AI	AJ	AK	AL	AM	AN
59			**AL Change in GHG (MT CO2e/yr) - High**							
60			**Year**							
61	**Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
62	Industry (Hard-to-Electrify)	Refineries	-191,372.4	-221,568.6	-247,839.2	-273,647.7	-297,926.3	-318,300.4	-328,408.5	-358,487.9
63	Industry (Hard-to-Electrify)	FoodBeverage	-38,416.2	-45,113.1	-51,399.7	-57,341.6	-63,073.0	-68,557.5	-73,718.9	-78,822.7
64	Industry (Hard-to-Electrify)	Metals	-15,122.4	-17,148.5	-19,058.5	-20,843.0	-22,754.5	-24,513.1	-26,351.7	-28,070.7
65	Industry (Hard-to-Electrify)	StoneGlassCement	-34,573.9	-40,249.6	-44,959.6	-48,529.7	-53,209.0	-56,901.6	-59,201.4	-64,089.2
66	Industry (Hard-to-Electrify)	Paper	-4,475.7	-5,412.0	-6,305.1	-7,161.7	-7,985.4	-8,779.3	-9,535.5	-10,268.1
67	Industry (Hard-to-Electrify)	Chemicals	-2,015.3	-2,483.9	-2,957.4	-3,441.8	-3,939.2	-4,437.0	-4,940.4	-5,465.8
68	Industry (Hard-to-Electrify)	AeroSpaceDefense	-802.3	-979.2	-1,156.9	-1,319.4	-1,482.9	-1,640.1	-1,779.7	-1,919.2
69	Power	PeakerBaseload	-35,644.3	-82,684.3	-148,540.2	-233,211.9	-336,699.5	-459,003.0	-605,604.7	-772,490.8
70	Power	Cogeneration	-5,499.9	-17,655.8	-35,546.1	-59,171.0	-88,530.3	-123,624.2	-165,882.0	-214,321.8
71	Mobility	MDV	-82,479.9	-103,872.5	-127,884.4	-154,077.2	-182,205.4	-211,951.5	-240,162.5	-266,548.8
72	Mobility	HDV	-624,917.8	-743,260.6	-878,339.8	-1,031,019.7	-1,202,718.1	-1,394,456.4	-1,574,126.9	-1,743,060.7
73	Mobility	Bus	-378,250.9	-429,849.0	-475,003.1	-514,176.7	-548,052.1	-577,183.9	-630,844.7	-682,279.6
74	Mobility	Agriculture	-4,631.4	-6,289.9	-8,096.4	-10,043.8	-12,126.0	-14,336.6	-16,591.5	-18,876.2
75	Mobility	CHC	-622.4	-1,052.0	-1,487.4	-1,915.3	-2,335.5	-6,846.8	-11,246.1	-14,818.4
76	Mobility	CHE	-12,674.5	-16,661.7	-21,168.1	-26,126.3	-31,570.9	-37,497.2	-43,052.6	-48,264.2
77	Mobility	Construction & Mining	-18,707.5	-23,171.2	-27,809.3	-32,646.6	-37,693.2	-42,946.2	-46,575.1	-51,441.0
78	Mobility	GSE	-2,818.9	-3,747.4	-4,733.1	-5,781.4	-6,867.6	-7,982.7	-8,909.2	-9,894.5
79	Infrastructure	Storage	507.1	595.7	693.4	801.3	920.2	1,050.2	1,185.2	1,332.2
80	Infrastructure	Transmission	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2
81	Infrastructure	Production	2,396.2	2,814.9	3,276.3	3,786.1	4,348.0	4,961.9	5,600.2	6,294.5
83	Overall Project	Overall	-1,448,819.8	-1,756,258.7	-2,096,533.9	-2,473,809.7	-2,891,537.3	-3,350,248.4	-3,837,102.1	-4,358,071.7
84										
99										
100			**AL GHG Summary by End-User Sector (million MT CO2e/year)**							
102	**Segment**	**Sector**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**
103	Change in GHG - Low	End-User	-0.3	-0.5	-0.6	-0.8	-1.0	-1.3	-1.6	-1.9
104	Change in GHG - Med	End-User	-0.9	-1.1	-1.3	-1.7	-2.0	-2.5	-2.9	-3.4
105	Change in GHG - High	End-User	-1.5	-1.8	-2.1	-2.5	-2.9	-3.4	-3.8	-4.4
106										
107			**AL GHG Summary by Scenario (million MT CO2e/year)**							
108										
110										
111	Change in GHG - Low	ALL	-0.3	-0.4	-0.6	-0.8	-1.0	-1.3	-1.6	-1.9
112	Change in GHG - Medium	ALL	-0.9	-1.1	-1.3	-1.7	-2.0	-2.5	-2.9	-3.4
113	Change in GHG - High	ALL	-1.4	-1.8	-2.1	-2.5	-2.9	-3.4	-3.8	-4.4
114										

	Z	AA	AP	AQ	AR	AS	AT	AU	AV	AW
1										
6										
7			**Angeles Link Throughput Scenario GHG Summary**							
8										
9			**AL Change in GHG (MT CO2e/yr) - Low**							
10										
11	**Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
12	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Industry (Hard-to-Electrify)	FoodBeverage	-37,222.0	-38,587.6	-40,788.6	-42,798.2	-44,632.7	-46,307.5	-47,836.6	-49,232.7
14	Industry (Hard-to-Electrify)	Metals	-23,473.6	-24,398.8	-25,285.5	-26,111.0	-26,881.0	-27,600.1	-28,270.9	-28,849.3
15	Industry (Hard-to-Electrify)	StoneGlassCement	-63,418.1	-65,695.4	-67,824.2	-69,781.6	-71,567.1	-73,204.0	-74,707.2	-76,079.1
16	Industry (Hard-to-Electrify)	Paper	-9,030.3	-9,434.6	-10,075.8	-10,667.4	-11,213.2	-11,716.9	-12,181.9	-12,611.0
17	Industry (Hard-to-Electrify)	Chemicals	-4,150.0	-4,348.1	-4,668.1	-4,965.4	-5,241.6	-5,498.3	-5,736.9	-5,958.6
18	Industry (Hard-to-Electrify)	AeroSpaceDefense	-1,423.6	-1,485.2	-1,583.0	-1,673.0	-1,755.7	-1,831.8	-1,901.9	-1,966.4
19	Power	PeakerBaseload	-268,920.1	-327,053.9	-390,871.8	-464,266.0	-543,955.4	-629,940.0	-722,219.9	-820,795.0
20	Power	Cogeneration	-75,364.5	-92,403.2	-111,174.2	-132,790.9	-156,326.1	-181,779.9	-209,152.4	-238,443.4
21	Mobility	MDV	-187,424.3	-211,621.1	-235,374.8	-258,749.8	-281,567.8	-304,121.6	-325,947.8	-347,360.4
22	Mobility	HDV	-921,937.0	-1,033,189.3	-1,138,967.5	-1,259,959.0	-1,397,564.3	-1,551,501.9	-1,721,120.7	-1,905,717.3
23	Mobility	Bus	-489,284.6	-544,089.8	-595,178.0	-642,776.7	-687,566.7	-729,967.0	-769,757.8	-807,265.8
24	Mobility	Agriculture	-11,053.3	-13,215.8	-15,691.5	-18,170.5	-20,629.7	-23,066.5	-25,479.6	-27,868.4
25	Mobility	CHC	-11,625.9	-13,002.4	-14,050.5	-15,050.6	-16,058.6	-17,081.1	-18,114.4	-19,153.3
26	Mobility	CHE	-30,686.3	-35,290.8	-40,407.2	-45,551.7	-50,415.9	-55,013.7	-59,374.3	-63,525.8
27	Mobility	Construction & Mining	-44,679.7	-49,640.3	-54,441.2	-58,941.3	-63,228.4	-67,334.6	-71,293.4	-75,141.6
28	Mobility	GSE	-7,873.0	-8,725.0	-9,512.0	-10,089.8	-10,615.6	-11,099.2	-11,543.3	-11,951.0
29	Infrastructure	Storage	426.1	483.9	542.7	607.9	678.6	754.8	836.3	923.0
30	Infrastructure	Transmission	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5
31	Infrastructure	Production	2013.1	2286.5	2564.4	2872.4	3206.3	3566.3	3951.3	4361.3
33	Overall Project	Overall	-2,184,032.7	-2,468,168.0	-2,751,393.0	-3,057,301.2	-3,383,592.3	-3,730,804.8	-4,097,703.6	-4,484,264.2

	Z	AA	AP	AQ	AR	AS	AT	AU	AV	AW
34	**AL Change in GHG (MT CO2e/yr) - Medium**									
35										
36	**Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
37	Industry (Hard-to-Electrify)	Refineries	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	Industry (Hard-to-Electrify)	FoodBeverage	-102,903.5	-108,789.1	-116,007.9	-122,968.5	-129,598.5	-135,982.3	-141,993.8	-147,675.9
39	Industry (Hard-to-Electrify)	Metals	-36,532.0	-38,528.7	-40,623.9	-42,620.8	-44,615.7	-46,634.1	-48,539.4	-50,314.1
40	Industry (Hard-to-Electrify)	StoneGlassCement	-81,278.4	-82,858.7	-84,177.4	-86,491.1	-88,242.0	-90,137.5	-92,269.0	-93,638.7
41	Industry (Hard-to-Electrify)	Paper	-13,465.4	-14,319.3	-15,510.8	-16,668.6	-17,826.3	-18,916.6	-19,964.7	-20,971.0
42	Industry (Hard-to-Electrify)	Chemicals	-7,364.5	-8,043.1	-9,005.4	-9,997.6	-11,006.7	-12,039.3	-13,085.7	-14,112.2
43	Industry (Hard-to-Electrify)	AeroSpaceDefense	-2,511.7	-2,678.6	-2,920.5	-3,155.0	-3,384.8	-3,594.2	-3,802.1	-4,013.6
44	Power	PeakerBaseload	-724,355.5	-880,943.0	-1,052,841.2	-1,250,533.7	-1,465,182.8	-1,696,788.6	-1,945,351.0	-2,210,870.1
45	Power	Cogeneration	-202,999.6	-248,894.6	-299,455.8	-357,681.8	-421,075.6	-489,637.3	-563,366.9	-642,264.3
46	Mobility	MDV	-273,359.9	-302,519.8	-330,586.0	-358,281.5	-385,409.1	-412,335.4	-438,460.5	-464,176.8
47	Mobility	HDV	-1,610,101.5	-1,769,740.2	-1,921,997.7	-2,080,816.8	-2,247,262.8	-2,421,648.9	-2,603,836.4	-2,793,546.0
48	Mobility	Bus	-695,632.7	-758,419.9	-817,161.4	-872,080.1	-923,993.7	-973,381.1	-1,019,901.6	-1,063,928.8
49	Mobility	Agriculture	-18,722.8	-21,406.5	-24,293.5	-27,183.0	-30,057.4	-32,912.4	-35,744.9	-38,552.2
50	Mobility	CHC	-17,279.6	-19,329.9	-20,891.1	-22,208.0	-23,366.9	-24,409.8	-25,363.0	-26,244.7
51	Mobility	CHE	-47,870.6	-53,469.2	-59,196.1	-64,987.5	-70,491.0	-75,724.3	-80,718.1	-85,501.9
52	Mobility	Construction & Mining	-59,761.2	-65,520.2	-71,132.3	-76,466.0	-81,631.9	-86,653.3	-91,552.3	-96,355.2
53	Mobility	GSE	-10,701.6	-11,742.5	-12,704.8	-13,403.8	-14,039.8	-14,624.5	-15,161.3	-15,653.5
54	Infrastructure	Storage	814.0	923.8	1,037.9	1,163.3	1,296.4	1,437.5	1,586.5	1,743.1
55	Infrastructure	Transmission	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5
56	Infrastructure	Production	3,846.0	4,364.6	4,904.1	5,496.6	6,125.2	6,792.0	7,496.0	8,236.0
58	Overall Project	Overall	-3,898,090.1	-4,379,542.8	-4,869,898.2	-5,395,896.4	-5,946,434.2	-6,523,498.5	-7,125,954.1	-7,753,363.4

	Z	AA	AP	AQ	AR	AS	AT	AU	AV	AW
59			AL Change in GHG (MT CO2e/yr) - High							
60										
61	**Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
62	Industry (Hard-to-Electrify)	Refineries	-373,046.1	-387,065.5	-403,336.0	-413,927.1	-426,329.5	-441,405.8	-453,028.8	-464,496.4
63	Industry (Hard-to-Electrify)	FoodBeverage	-83,852.9	-88,648.9	-94,531.3	-100,203.3	-105,605.9	-110,807.8	-115,706.4	-120,336.6
64	Industry (Hard-to-Electrify)	Metals	-29,768.8	-31,395.9	-33,103.2	-34,730.4	-36,356.0	-38,000.7	-39,553.3	-40,999.4
65	Industry (Hard-to-Electrify)	StoneGlassCement	-66,231.3	-67,519.0	-68,593.6	-70,479.0	-71,905.7	-73,450.3	-75,187.2	-76,303.3
66	Industry (Hard-to-Electrify)	Paper	-10,972.6	-11,668.4	-12,639.3	-13,582.7	-14,526.1	-15,414.6	-16,268.6	-17,088.6
67	Industry (Hard-to-Electrify)	Chemicals	-6,001.1	-6,554.1	-7,338.2	-8,146.7	-8,969.1	-9,810.4	-10,663.1	-11,499.6
68	Industry (Hard-to-Electrify)	AeroSpaceDefense	-2,046.7	-2,182.7	-2,379.8	-2,570.9	-2,758.2	-2,928.8	-3,098.2	-3,270.6
69	Power	PeakerBaseload	-959,661.2	-1,167,116.0	-1,394,855.1	-1,656,767.7	-1,941,145.2	-2,247,987.8	-2,577,295.3	-2,929,067.9
70	Power	Cogeneration	-268,943.7	-329,747.6	-396,733.5	-473,874.1	-557,861.4	-648,695.3	-746,375.8	-850,902.9
71	Mobility	MDV	-291,400.9	-314,939.5	-337,097.6	-359,093.5	-380,772.0	-402,452.0	-423,583.3	-444,507.1
72	Mobility	HDV	-1,902,847.9	-2,054,877.6	-2,200,660.1	-2,341,466.5	-2,477,535.6	-2,609,689.7	-2,738,369.1	-2,863,827.9
73	Mobility	Bus	-730,704.7	-776,373.2	-819,452.5	-860,042.4	-898,800.3	-936,072.8	-971,464.0	-1,005,244.7
74	Mobility	Agriculture	-21,182.4	-23,503.0	-25,831.5	-28,162.0	-30,489.4	-32,808.7	-35,115.7	-37,406.4
75	Mobility	CHC	-17,586.4	-19,702.7	-21,315.1	-22,542.6	-23,475.9	-24,183.6	-24,717.1	-25,115.2
76	Mobility	CHE	-53,086.8	-57,625.4	-61,831.8	-66,143.1	-70,276.8	-74,247.6	-78,075.6	-81,779.9
77	Mobility	Construction & Mining	-56,189.2	-60,817.9	-65,373.1	-69,777.4	-74,127.0	-78,426.8	-82,677.3	-86,883.4
78	Mobility	GSE	-10,810.1	-11,659.0	-12,445.1	-13,001.9	-13,508.4	-13,973.8	-14,400.4	-14,791.0
79	Infrastructure	Storage	1,479.2	1,631.5	1,791.1	1,954.4	2,125.8	2,306.0	2,493.2	2,688.1
80	Infrastructure	Transmission	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3
81	Infrastructure	Production	6,988.9	7,708.5	8,462.8	9,234.4	10,044.2	10,895.7	11,779.9	12,701.0
83	Overall Project	Overall	-4,872,066.1	-5,397,866.5	-5,942,663.3	-6,518,303.4	-7,116,813.1	-7,741,232.7	-8,384,903.6	-9,051,228.3
84										
99										
100			AL GHG Summary by End-User Sector (million MT CO2e/year)							
102	**Segment**	**Sector**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
103	Change in GHG - Low	End-User	-2.2	-2.5	-2.8	-3.1	-3.4	-3.7	-4.1	-4.5
104	Change in GHG - Med	End-User	-3.9	-4.4	-4.9	-5.4	-6.0	-6.5	-7.1	-7.8
105	Change in GHG - High	End-User	-4.9	-5.4	-6.0	-6.5	-7.1	-7.8	-8.4	-9.1
106										
107			AL GHG Summary by Scenario (million MT CO2e/year)							
108										
110										
111	Change in GHG - Low	ALL	-2.2	-2.5	-2.8	-3.1	-3.4	-3.7	-4.1	-4.5
112	Change in GHG - Medium	ALL	-3.9	-4.4	-4.9	-5.4	-5.9	-6.5	-7.1	-7.8
113	Change in GHG - High	ALL	-4.9	-5.4	-5.9	-6.5	-7.1	-7.7	-8.4	-9.1
114										

Tab Contents

Summary of production GHG emissions results and minor calculations to develop results. The Demand Scenario results include emissions from hydrogen produced, stored, and transmitted by third-parties, in addition that hydrogen associated with Angeles Link. The Angeles Link results are specific to the hydrogen produced, stored, and transmitted within the Angeles Link system.

Market Scenario - Production - GHG

Note: raw data was copied from "ALP1_GHG_Prod_1_Calcs_SoCalGas.xlsx", tab "1. Prod_N2O_Summary".

GWP N2O	273	AR6

Total N2O Emissions (MT CO2e/year) - Conservative Demand

		Year															
Ratio	**% SMR**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Min -	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max -	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min -	33% SMR	238.82489	318.2168	427.16724	567.00383	739.36341	948.54746	1165.8933	1382.6721	1599.028171	1816.194613	2036.929956	2281.584641	2546.788856	2832.701004	3138.554518	3464.189099
Max -	33% SMR	372.93454	496.90815	667.03859	885.39897	1154.5453	1481.1945	1820.5887	2159.0974	2496.945918	2836.059931	3180.746925	3562.784921	3976.911823	4423.374983	4900.977378	5409.468692
Min -	100% SMR	717.19187	955.60599	1282.7845	1702.7142	2220.3106	2848.4909	3501.1811	4152.1686	4801.886399	5454.037876	6116.906775	6851.605529	7648.014583	8506.609623	9425.088644	10402.97027
Max -	100% SMR	1119.9236	1492.2167	2003.1189	2658.8558	3467.103	4448.0315	5467.2332	6483.776	7498.336089	8516.69649	9551.792569	10699.05382	11942.67815	13283.40836	14717.64978	16244.65073

Total N2O Emissions (MT CO2e/year) - Moderate Demand

		Year															
Ratio	**% SMR**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Min -	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max -	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min -	33% SMR	514.39983	655.6942	834.97466	1053.3293	1315.4774	1623.5662	1950.4835	2289.6452	2635.199544	2990.570537	3360.226392	3766.152566	4196.8998	4653.740103	5136.100965	5643.198341
Max -	33% SMR	803.25573	1023.8925	1303.8461	1644.8155	2054.1702	2535.2631	3045.7574	3575.3717	4114.968619	4669.89452	5247.126801	5880.996623	6553.625516	7266.999772	8020.225391	8812.078058
Min -	100% SMR	1544.7442	1969.0516	2507.4314	3163.151	3950.3827	4875.5742	5857.308	6875.8113	7913.512144	8980.692303	10090.76995	11309.76746	12603.3027	13975.19551	15423.72662	16946.54156
Max -	100% SMR	2412.1794	3074.7522	3915.4536	4939.3858	6168.6792	7613.4026	9146.4187	10736.852	12357.26312	14023.70727	15757.13754	17660.65052	19680.5571	21822.82214	24084.76093	26462.69687

Total N2O Emissions (MT CO2e/year) - Ambitious Demand

		Year															
Ratio	**% SMR**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Min -	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max -	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min -	33% SMR	2014.8646	2366.8683	2754.9125	3183.5531	3656.0404	4172.194	4708.9059	5292.7144	5876.641022	6481.734105	7115.919488	7764.723961	8445.710992	9161.640048	9905.108695	10679.60478
Max -	33% SMR	3146.2909	3695.9587	4301.9052	4971.2444	5709.0521	6515.0464	7353.1434	8264.7834	9176.608065	10121.48492	11111.79055	12124.92447	13188.31273	14306.26435	15467.22013	16676.62649
Min -	100% SMR	6050.6444	7107.7125	8273.0106	9560.2195	10979.1	12529.111	14140.859	15894.037	17647.57064	19464.66698	21369.12759	23317.48937	25362.49547	27512.43258	29745.07115	32070.88521
Max -	100% SMR	9448.3212	11098.975	12918.634	14928.662	17144.301	19564.704	22081.512	24819.169	27557.38158	30394.8496	33368.74039	36411.18459	39604.54273	42961.7548	46448.10851	50079.95942

	AA	AB	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX
1																			
2																			
3																			
5																			
6	**Angeles Link Throughput Scenario - Production - GHG**																		
7																			
8																			
9	GWP N2O	273	AR6																
10																			
11	**AL Total N2O Emissions (MT CO2e/year) - Low Throughput**																		
12			**Year**																
13	**Ratio**	**% SMR**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	
14	Min -	0% SMR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Max -	0% SMR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	Min -	33% SMR	64.11839401	85.43309564	114.68351	152.22607	198.50022	254.66081	313.01263	371.21221	429.2982908	487.6019429	546.8637541	612.5472986	683.7478681	760.5079895	842.6218591	930.0464407	
17	Max -	33% SMR	100.1234156	133.4071677	179.08285	237.70705	309.96597	397.66295	488.78164	579.6626	670.36631	761.4097756	853.9494445	956.5169048	1067.699418	1187.563393	1315.787457	1452.304409	
18	Min -	100% SMR	192.5477298	256.5558428	344.39493	457.13535	596.09677	764.74716	939.97786	1114.7514	1289.184056	1464.270099	1642.233496	1839.481377	2053.296901	2283.807776	2530.395973	2792.932254	
19	Max -	100% SMR	300.6709178	400.6221253	537.78635	713.83498	930.82875	1194.183	1467.8127	1740.7285	2013.112042	2286.515843	2564.412746	2872.423137	3206.304559	3566.256434	3951.313686	4361.274503	
20																			
21	**AL Total N2O Emissions (MT CO2e/year) - Medium Throughput**																		
22			**Year**																
23	**Ratio**	**% SMR**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	
24	Min -	0% SMR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	Max -	0% SMR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26	Min -	33% SMR	160.0977714	204.0731239	259.87097	327.82995	409.41889	505.30603	607.05322	712.61122	820.1588574	930.7617406	1045.810532	1172.147814	1306.210208	1448.393604	1598.519819	1756.344833	
27	Max -	33% SMR	249.9990207	318.668278	405.79883	511.91948	639.32383	789.05541	947.93768	1112.7707	1280.710589	1453.421379	1633.07463	1830.355307	2039.699053	2261.724067	2496.152106	2742.602126	
28	Min -	100% SMR	480.7740883	612.832204	780.39331	984.47434	1229.4861	1517.4355	1822.9826	2139.9736	2462.939512	2795.080302	3140.572169	3519.963405	3922.553177	4349.530343	4800.359818	5274.308808	
29	Max -	100% SMR	750.7478098	956.9617959	1218.6151	1537.2957	1919.8914	2369.5358	2846.6597	3341.6537	3845.977745	4364.628764	4904.128019	5496.562484	6125.222382	6791.964164	7495.952271	8236.04242	
30																			
31																			
32	**AL Total N2O Emissions (MT CO2e/year) - High Throughput**																		
33			**Year**																
34	**Ratio**	**% SMR**	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**	
35	Min -	0% SMR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
36	Max -	0% SMR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
37	Min -	33% SMR	510.9969252	600.269825	698.6831	807.39215	927.22132	1058.1249	1194.2423	1342.304	1490.395702	1643.855497	1804.693494	1969.23909	2141.946618	2323.515916	2512.069627	2708.492316	
38	Max -	33% SMR	797.9419684	937.3451427	1091.0214	1260.7749	1447.8929	1652.304	1864.8567	2096.0609	2327.312008	2566.945566	2818.100478	3075.044952	3344.734608	3628.26227	3922.69637	4229.41819	
39	Min -	100% SMR	1534.525301	1802.612087	2098.1475	2424.6011	2784.4484	3177.5522	3586.3131	4030.9429	4475.662768	4936.502994	5419.499982	5913.6309	6432.272125	6977.525273	7543.752635	8133.61056	
40	Max -	100% SMR	2396.222127	2814.850278	3276.3405	3786.1107	4348.0267	4961.8737	5600.1702	6294.4773	6988.924948	7708.545242	8462.764197	9234.369226	10044.24807	10895.68249	11779.86898	12700.95553	

Tab Contents

Summary of infrastructure GHG emissions results and minor calculations to develop results. The Demand Scenario results include emissions from hydrogen produced, stored, and transmitted by third-parties, in addition that hydrogen associated with Angeles Link. The Angeles Link results are specific to the hydrogen produced, stored, and transmitted within the Angeles Link system.

This tab includes the acronym PRJ. This refers to the project (PRJ) scenarios used in the calculation process (particularly for stationary sources). The PRJ scenario encompasses emissions for a sector or subsector including hydrogen adoption. Since infrastructure would only be present in the PRJ scenario, and therefore emissions would only occur in the PRJ scenario. The key findings reported in this study were change in emissions (due to hydrogen adoption either at a market level or as supplied by Angeles Link). While PRJ scenario information was used to develop certain results, this information is secondary to the core results of this study.

Market Scenario - Storage - GHG

Note: raw data was copied from "ALP1_GHG_S&T_2_CalcTool_SoCalGas.xlsx", tab "4.2.2 GHG_Results_Storage".

Storage PRJ GHG Emissions (MT CO2e/yr) - Conservative

	Conservative		**Year**															
Transmission	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	204.0	271.8	364.9	484.3	631.6	810.3	995.9	1,181.1	1,365.9	1,551.4	1,740.0	1,949.0	2,175.5	2,419.7	2,681.0	2,959.2
Long	Reciprocating	20 bar	58.3	77.7	104.3	138.4	180.5	231.5	284.5	337.5	390.3	443.3	497.1	556.8	621.6	691.4	766.0	845.5
Long	Turbine	200 bar	237.0	315.8	424.0	562.7	733.8	941.4	1,157.1	1,372.3	1,587.0	1,802.5	2,021.6	2,264.4	2,527.6	2,811.4	3,114.9	3,438.1
Long	Turbine	20 bar	67.7	90.2	121.1	160.8	209.7	269.0	330.6	392.1	453.4	515.0	577.6	647.0	722.2	803.2	890.0	982.3
Short	Reciprocating	200 bar	204.0	271.8	364.9	484.3	631.6	810.3	995.9	1,181.1	1,365.9	1,551.4	1,740.0	1,949.0	2,175.5	2,419.7	2,681.0	2,959.2
Short	Reciprocating	20 bar	58.3	77.7	104.3	138.4	180.5	231.5	284.5	337.5	390.3	443.3	497.1	556.8	621.6	691.4	766.0	845.5
Short	Turbine	200 bar	237.0	315.8	424.0	562.7	733.8	941.4	1,157.1	1,372.3	1,587.0	1,802.5	2,021.6	2,264.4	2,527.6	2,811.4	3,114.9	3,438.1
Short	Turbine	20 bar	67.7	90.2	121.1	160.8	209.7	269.0	330.6	392.1	453.4	515.0	577.6	647.0	722.2	803.2	890.0	982.3

Storage PRJ GHG Emissions (MT CO2e/yr) - Moderate

	Moderate		**Year**															
Transmission	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	439.4	560.1	713.2	899.8	1,123.7	1,386.9	1,666.1	1,955.8	2,251.0	2,554.6	2,870.4	3,217.1	3,585.1	3,975.3	4,387.3	4,820.5
Long	Reciprocating	20 bar	125.5	160.0	203.8	257.1	321.1	396.2	476.0	558.8	643.2	729.9	820.1	919.2	1,024.3	1,135.8	1,253.5	1,377.3
Long	Turbine	200 bar	510.5	650.8	828.7	1,045.4	1,305.6	1,611.3	1,935.8	2,272.4	2,615.4	2,968.0	3,334.9	3,737.8	4,165.3	4,618.7	5,097.4	5,600.7
Long	Turbine	20 bar	145.9	185.9	236.8	298.7	373.0	460.4	553.1	649.3	747.2	848.0	952.8	1,067.9	1,190.1	1,319.6	1,456.4	1,600.2
Short	Reciprocating	200 bar	439.4	560.1	713.2	899.8	1,123.7	1,386.9	1,666.1	1,955.8	2,251.0	2,554.6	2,870.4	3,217.1	3,585.1	3,975.3	4,387.3	4,820.5
Short	Reciprocating	20 bar	125.5	160.0	203.8	257.1	321.1	396.2	476.0	558.8	643.2	729.9	820.1	919.2	1,024.3	1,135.8	1,253.5	1,377.3
Short	Turbine	200 bar	510.5	650.8	828.7	1,045.4	1,305.6	1,611.3	1,935.8	2,272.4	2,615.4	2,968.0	3,334.9	3,737.8	4,165.3	4,618.7	5,097.4	5,600.7
Short	Turbine	20 bar	145.9	185.9	236.8	298.7	373.0	460.4	553.1	649.3	747.2	848.0	952.8	1,067.9	1,190.1	1,319.6	1,456.4	1,600.2

Storage PRJ GHG Emissions (MT CO2e/yr) - Ambitious

	Ambitious		Year															
Transmission	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	1,721.1	2,021.8	2,353.3	2,719.4	3,123.0	3,563.9	4,022.4	4,521.1	5,019.9	5,536.8	6,078.5	6,632.7	7,214.5	7,826.0	8,461.1	9,122.7
Long	Reciprocating	20 bar	491.8	577.7	672.4	777.0	892.3	1,018.3	1,149.3	1,291.7	1,434.3	1,581.9	1,736.7	1,895.1	2,061.3	2,236.0	2,417.5	2,606.5
Long	Turbine	200 bar	1,999.7	2,349.0	2,734.2	3,159.6	3,628.5	4,140.8	4,673.4	5,252.9	5,832.4	6,432.9	7,062.3	7,706.2	8,382.1	9,092.6	9,830.5	10,599.2
Long	Turbine	20 bar	571.3	671.2	781.2	902.7	1,036.7	1,183.1	1,335.3	1,500.8	1,666.4	1,838.0	2,017.8	2,201.8	2,394.9	2,597.9	2,808.7	3,028.3
Short	Reciprocating	200 bar	1,721.1	2,021.8	2,353.3	2,719.4	3,123.0	3,563.9	4,022.4	4,521.1	5,019.9	5,536.8	6,078.5	6,632.7	7,214.5	7,826.0	8,461.1	9,122.7
Short	Reciprocating	20 bar	491.8	577.7	672.4	777.0	892.3	1,018.3	1,149.3	1,291.7	1,434.3	1,581.9	1,736.7	1,895.1	2,061.3	2,236.0	2,417.5	2,606.5
Short	Turbine	200 bar	1,999.7	2,349.0	2,734.2	3,159.6	3,628.5	4,140.8	4,673.4	5,252.9	5,832.4	6,432.9	7,062.3	7,706.2	8,382.1	9,092.6	9,830.5	10,599.2
Short	Turbine	20 bar	571.3	671.2	781.2	902.7	1,036.7	1,183.1	1,335.3	1,500.8	1,666.4	1,838.0	2,017.8	2,201.8	2,394.9	2,597.9	2,808.7	3,028.3

	AA	AB	AC	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
1																				
6																				
7	**Market Scenario - Transmission - GHG**																			
8	**Note: raw data was copied from "ALP1_GHG_S&T_2_CalcTool_SoCalGas.xlsx", tab "4.2.1 GHG_Results_Transmiss".**																			
9																				
10	**Transmission PRJ GHG Emissions (MT CO2e/yr) - Conservative**																			
11		Conservative		**Year**																
12	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
13	Long	Reciprocating	200 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
14	Long	Reciprocating	20 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
15	Long	Turbine	200 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
16	Long	Turbine	20 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
17	Short	Reciprocating	200 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
18	Short	Reciprocating	20 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
19	Short	Turbine	200 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
20	Short	Turbine	20 bar	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
21																				
22																				
23	**Transmission PRJ GHG Emissions (MT CO2e/yr) - Moderate**																			
24		Moderate		**Year**																
25	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
26	Long	Reciprocating	200 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
27	Long	Reciprocating	20 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
28	Long	Turbine	200 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
29	Long	Turbine	20 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
30	Short	Reciprocating	200 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
31	Short	Reciprocating	20 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
32	Short	Turbine	200 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
33	Short	Turbine	20 bar	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
34																				
35																				
36	**Transmission PRJ GHG Emissions (MT CO2e/yr) - Ambitious**																			
37		Ambitious		**Year**																
38	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
39	Long	Reciprocating	200 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
40	Long	Reciprocating	20 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
41	Long	Turbine	200 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
42	Long	Turbine	20 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
43	Short	Reciprocating	200 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
44	Short	Reciprocating	20 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
45	Short	Turbine	200 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
46	Short	Turbine	20 bar	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
47																				

	AZ	BA	BB	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX
1																				
6																				
7	**Angeles Link Throughput Scenario - Storage - GHG**																			
8																				
9																				
10	**AL Storage PRJ GHG Emissions (MT CO2e/yr) - Low**																			
11		Low		**Year**																
12	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
13	Long	Reciprocating	200 bar	54.8	73.0	98.0	130.0	169.6	217.5	267.4	317.1	366.7	416.5	467.1	523.2	584.1	649.6	719.8	794.5	
14	Long	Reciprocating	20 bar	15.6	20.9	28.0	37.2	48.4	62.2	76.4	90.6	104.8	119.0	133.5	149.5	166.9	185.6	205.7	227.0	
15	Long	Turbine	200 bar	63.6	84.8	113.8	151.1	197.0	252.7	310.7	368.4	426.1	483.9	542.7	607.9	678.6	754.8	836.3	923.0	
16	Long	Turbine	20 bar	18.2	24.2	32.5	43.2	56.3	72.2	88.8	105.3	121.7	138.3	155.1	173.7	193.9	215.7	238.9	263.7	
17	Short	Reciprocating	200 bar	54.8	73.0	98.0	130.0	169.6	217.5	267.4	317.1	366.7	416.5	467.1	523.2	584.1	649.6	719.8	794.5	
18	Short	Reciprocating	20 bar	15.6	20.9	28.0	37.2	48.4	62.2	76.4	90.6	104.8	119.0	133.5	149.5	166.9	185.6	205.7	227.0	
19	Short	Turbine	200 bar	63.6	84.8	113.8	151.1	197.0	252.7	310.7	368.4	426.1	483.9	542.7	607.9	678.6	754.8	836.3	923.0	
20	Short	Turbine	20 bar	18.2	24.2	32.5	43.2	56.3	72.2	88.8	105.3	121.7	138.3	155.1	173.7	193.9	215.7	238.9	263.7	
21																				
22																				
23	**AL Storage PRJ GHG Emissions (MT CO2e/yr) - Medium**																			
24		Medium		**Year**																
25	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
26	Long	Reciprocating	200 bar	136.8	174.3	222.0	280.0	349.7	431.6	518.6	608.7	700.6	795.1	893.3	1,001.3	1,115.8	1,237.2	1,365.5	1,500.3	
27	Long	Reciprocating	20 bar	39.1	49.8	63.4	80.0	99.9	123.3	148.2	173.9	200.2	227.2	255.2	286.1	318.8	353.5	390.1	428.7	
28	Long	Turbine	200 bar	158.9	202.5	257.9	325.4	406.3	501.5	602.5	707.2	814.0	923.8	1,037.9	1,163.3	1,296.4	1,437.5	1,586.5	1,743.1	
29	Long	Turbine	20 bar	45.4	57.9	73.7	93.0	116.1	143.3	172.1	202.1	232.6	263.9	296.6	332.4	370.4	410.7	453.3	498.0	
30	Short	Reciprocating	200 bar	136.8	174.3	222.0	280.0	349.7	431.6	518.6	608.7	700.6	795.1	893.3	1,001.3	1,115.8	1,237.2	1,365.5	1,500.3	
31	Short	Reciprocating	20 bar	39.1	49.8	63.4	80.0	99.9	123.3	148.2	173.9	200.2	227.2	255.2	286.1	318.8	353.5	390.1	428.7	
32	Short	Turbine	200 bar	158.9	202.5	257.9	325.4	406.3	501.5	602.5	707.2	814.0	923.8	1,037.9	1,163.3	1,296.4	1,437.5	1,586.5	1,743.1	
33	Short	Turbine	20 bar	45.4	57.9	73.7	93.0	116.1	143.3	172.1	202.1	232.6	263.9	296.6	332.4	370.4	410.7	453.3	498.0	
34																				
35																				
36	**AL Storage PRJ GHG Emissions (MT CO2e/yr) - High**																			
37		High		**Year**																
38	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
39	Long	Reciprocating	200 bar	436.5	512.8	596.8	689.7	792.0	903.9	1,020.1	1,146.6	1,273.1	1,404.2	1,541.6	1,682.2	1,829.7	1,984.8	2,145.8	2,313.6	
40	Long	Reciprocating	20 bar	124.7	146.5	170.5	197.1	226.3	258.2	291.5	327.6	363.7	401.2	440.5	480.6	522.8	567.1	613.1	661.0	
41	Long	Turbine	200 bar	507.1	595.7	693.4	801.3	920.2	1,050.2	1,185.2	1,332.2	1,479.2	1,631.5	1,791.1	1,954.4	2,125.8	2,306.0	2,493.2	2,688.1	
42	Long	Turbine	20 bar	144.9	170.2	198.1	228.9	262.9	300.0	338.6	380.6	422.6	466.1	511.7	558.4	607.4	658.9	712.3	768.0	
43	Short	Reciprocating	200 bar	436.5	512.8	596.8	689.7	792.0	903.9	1,020.1	1,146.6	1,273.1	1,404.2	1,541.6	1,682.2	1,829.7	1,984.8	2,145.8	2,313.6	
44	Short	Reciprocating	20 bar	124.7	146.5	170.5	197.1	226.3	258.2	291.5	327.6	363.7	401.2	440.5	480.6	522.8	567.1	613.1	661.0	
45	Short	Turbine	200 bar	507.1	595.7	693.4	801.3	920.2	1,050.2	1,185.2	1,332.2	1,479.2	1,631.5	1,791.1	1,954.4	2,125.8	2,306.0	2,493.2	2,688.1	
46	Short	Turbine	20 bar	144.9	170.2	198.1	228.9	262.9	300.0	338.6	380.6	422.6	466.1	511.7	558.4	607.4	658.9	712.3	768.0	
47																				

	BY	BZ	CA	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW
1																				
6																				
7	**Angeles Link Throughput Scenario - Transmission - GHG**																			
8																				
9																				
10	**AL Transmission PRJ GHG Emissions (MT CO2e/yr) - Low**																			
11		Low		**Year**																
12	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
13	Long	Reciprocating	200 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
14	Long	Reciprocating	20 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
15	Long	Turbine	200 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
16	Long	Turbine	20 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
17	Short	Reciprocating	200 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
18	Short	Reciprocating	20 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
19	Short	Turbine	200 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
20	Short	Turbine	20 bar	163.4	217.7	292.3	388.0	505.9	649.1	797.8	946.1	1,094.2	1,242.8	1,393.8	1,561.2	1,742.7	1,938.4	2,147.6	2,370.5	
21																				
22																				
23	**AL Transmission PRJ GHG Emissions (MT CO2e/yr) - Medium**																			
24		Medium		**Year**																
25	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
26	Long	Reciprocating	200 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
27	Long	Reciprocating	20 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
28	Long	Turbine	200 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
29	Long	Turbine	20 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
30	Short	Reciprocating	200 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
31	Short	Reciprocating	20 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
32	Short	Turbine	200 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
33	Short	Turbine	20 bar	408.1	520.1	662.4	835.6	1,043.5	1,287.9	1,547.2	1,816.3	2,090.4	2,372.3	2,665.5	2,987.5	3,329.2	3,691.6	4,074.3	4,476.5	
34																				
35																				
36	**AL Transmission PRJ GHG Emissions (MT CO2e/yr) - High**																			
37		High		**Year**																
38	**Transmission**	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
39	Long	Reciprocating	200 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
40	Long	Reciprocating	20 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
41	Long	Turbine	200 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
42	Long	Turbine	20 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
43	Short	Reciprocating	200 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
44	Short	Reciprocating	20 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
45	Short	Turbine	200 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
46	Short	Turbine	20 bar	1,302.4	1,529.9	1,780.8	2,057.9	2,363.3	2,696.9	3,043.8	3,421.2	3,798.7	4,189.8	4,599.7	5,019.1	5,459.3	5,922.1	6,402.7	6,903.3	
47																				

	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DQ
1																			
6																			
7																			
8																			
9																			
10	**Maximum PRJ Infrastructure GHG Emissions (MT CO2e/yr) - Conservative**																		
11			2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
12		Storage	237.0	315.8	424.0	562.7	733.8	941.4	1,157.1	1,372.3	1,587.0	1,802.5	2,021.6	2,264.4	2,527.6	2,811.4	3,114.9	3,438.1	
13	High	Transmission	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
14		Production	1,119.92	1,492.22	2,003.12	2,658.86	3,467.10	4,448.03	5,467.23	6,483.78	7,498.34	8,516.70	9,551.79	10,699.05	11,942.68	13,283.41	14,717.65	16,244.65	
15		Storage	58.3	77.7	104.3	138.4	180.5	231.5	284.5	337.5	390.3	443.3	497.1	556.8	621.6	691.4	766.0	845.5	
16	Low	Transmission	608.7	811.1	1,088.8	1,445.2	1,884.5	2,417.6	2,971.6	3,524.1	4,075.6	4,629.1	5,191.7	5,815.2	6,491.2	7,219.9	7,999.5	8,829.4	
17		Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18																			
19																			
20	**Maximum PRJ Infrastructure GHG Emissions (MT CO2e/yr) - Moderate**																		
21			2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
22		Storage	510.5	650.8	828.7	1,045.4	1,305.6	1,611.3	1,935.8	2,272.4	2,615.4	2,968.0	3,334.9	3,737.8	4,165.3	4,618.7	5,097.4	5,600.7	
23	High	Transmission	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
24		Production	2,412.18	3,074.75	3,915.45	4,939.39	6,168.68	7,613.40	9,146.42	10,736.85	12,357.26	14,023.71	15,757.14	17,660.65	19,680.56	21,822.82	24,084.76	26,462.70	
25		Storage	125.5	160.0	203.8	257.1	321.1	396.2	476.0	558.8	643.2	729.9	820.1	919.2	1,024.3	1,135.8	1,253.5	1,377.3	
26	Low	Transmission	1,311.1	1,671.2	2,128.2	2,684.7	3,352.8	4,138.1	4,971.3	5,835.8	6,716.5	7,622.3	8,564.4	9,599.1	10,696.9	11,861.3	13,090.7	14,383.2	
27		Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28																			
29																			
30	**Maximum PRJ Infrastructure GHG Emissions (MT CO2e/yr) - Ambitious**																		
31			2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	
32		Storage	1,999.7	2,349.0	2,734.2	3,159.6	3,628.5	4,140.8	4,673.4	5,252.9	5,832.4	6,432.9	7,062.3	7,706.2	8,382.1	9,092.6	9,830.5	10,599.2	
33	High	Transmission	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
34		Production	9,448.32	11,098.97	12,918.63	14,928.66	17,144.30	19,564.70	22,081.51	24,819.17	27,557.38	30,394.85	33,368.74	36,411.18	39,604.54	42,961.75	46,448.11	50,079.96	
35		Storage	491.8	577.7	672.4	777.0	892.3	1,018.3	1,149.3	1,291.7	1,434.3	1,581.9	1,736.7	1,895.1	2,061.3	2,236.0	2,417.5	2,606.5	
36	Low	Transmission	5,135.4	6,032.6	7,021.6	8,114.1	9,318.4	10,634.0	12,001.9	13,489.9	14,978.2	16,520.4	18,136.8	19,790.5	21,526.2	23,350.9	25,245.8	27,219.9	
37		Production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
38																			
39																	% Storage	0.7197396	
40																	% Transmi:	0.2802604	
41																			
42																			
43																			
44																			
45																			
46																			
47																			

Tab Contents

Summary of storage and transmission GHG emissions results and minor calculations to develop results. The Demand Scenario results include emissions from hydrogen produced, stored, and transmitted by third-parties, in addition that hydrogen associated with Angeles Link. The Angeles Link results are specific to the hydrogen produced, stored, and transmitted within the Angeles Link system.

This tab includes the acronym PRJ. This refers to the project (PRJ) scenarios used in the calculation process (particularly for stationary sources). The PRJ scenario encompasses emissions for a sector or subsector including hydrogen adoption. Since infrastructure would only be present in the PRJ scenario, and therefore emissions would only occur in the PRJ scenario. The key findings reported in this study were change in emissions (due to hydrogen adoption either at a market level or as supplied by Angeles Link). While PRJ scenario information was used to develop certain results, this information is secondary to the core results of this study.

Market Scenario - Storage and Transmission - GHG

Note: raw data was copied from "ALP1_GHG_S&T_2_CalcTool_SoCalGas.xlsx", tab "4.2 GHG Results".

PRJ GHG Emissions (MT CO2e/yr) - Conservative

	Conservative	Overall GHG (MT CO2e)	Year															
Transmission	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	812.7	1,082.9	1,453.6	1,929.5	2,516.0	3,227.9	3,967.5	4,705.2	5,441.5	6,180.5	6,931.6	7,764.2	8,666.7	9,639.6	10,680.5	11,788.6
Long	Reciprocating	20 bar	667.0	888.7	1,193.0	1,583.5	2,064.9	2,649.1	3,256.1	3,861.6	4,465.8	5,072.3	5,688.8	6,372.1	7,112.8	7,911.3	8,765.5	9,674.9
Long	Turbine	200 bar	845.7	1,126.9	1,512.7	2,007.9	2,618.3	3,359.0	4,128.7	4,896.4	5,662.5	6,431.6	7,213.3	8,079.6	9,018.8	10,031.3	11,114.4	12,267.5
Long	Turbine	20 bar	676.4	901.3	1,209.9	1,605.9	2,094.1	2,686.6	3,302.2	3,916.2	4,529.0	5,144.1	5,769.3	6,462.2	7,213.4	8,023.2	8,889.4	9,811.7
Short	Reciprocating	200 bar	812.7	1,082.9	1,453.6	1,929.5	2,516.0	3,227.9	3,967.5	4,705.2	5,441.5	6,180.5	6,931.6	7,764.2	8,666.7	9,639.6	10,680.5	11,788.6
Short	Reciprocating	20 bar	667.0	888.7	1,193.0	1,583.5	2,064.9	2,649.1	3,256.1	3,861.6	4,465.8	5,072.3	5,688.8	6,372.1	7,112.8	7,911.3	8,765.5	9,674.9
Short	Turbine	200 bar	845.7	1,126.9	1,512.7	2,007.9	2,618.3	3,359.0	4,128.7	4,896.4	5,662.5	6,431.6	7,213.3	8,079.6	9,018.8	10,031.3	11,114.4	12,267.5
Short	Turbine	20 bar	676.4	901.3	1,209.9	1,605.9	2,094.1	2,686.6	3,302.2	3,916.2	4,529.0	5,144.1	5,769.3	6,462.2	7,213.4	8,023.2	8,889.4	9,811.7

PRJ GHG Emissions (MT CO2e/yr) - Moderate

	Moderate	Overall GHG (MT CO2e)	Year															
Transmission	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	1,750.5	2,231.3	2,841.4	3,584.5	4,476.5	5,525.0	6,637.5	7,791.6	8,967.5	10,176.9	11,434.8	12,816.2	14,282.0	15,836.6	17,478.1	19,203.7
Long	Reciprocating	20 bar	1,436.6	1,831.2	2,331.9	2,941.8	3,673.9	4,534.3	5,447.4	6,394.6	7,359.7	8,352.2	9,384.5	10,518.2	11,721.2	12,997.1	14,344.3	15,760.5
Long	Turbine	200 bar	1,821.6	2,322.0	2,956.8	3,730.1	4,658.4	5,749.4	6,907.1	8,108.2	9,331.9	10,590.3	11,899.4	13,336.8	14,862.2	16,480.0	18,188.2	19,983.9
Long	Turbine	20 bar	1,457.0	1,857.1	2,364.9	2,983.4	3,725.9	4,598.5	5,524.4	6,485.0	7,463.8	8,470.3	9,517.3	10,667.0	11,887.0	13,180.9	14,547.1	15,983.4
Short	Reciprocating	200 bar	1,750.5	2,231.3	2,841.4	3,584.5	4,476.5	5,525.0	6,637.5	7,791.6	8,967.5	10,176.9	11,434.8	12,816.2	14,282.0	15,836.6	17,478.1	19,203.7
Short	Reciprocating	20 bar	1,436.6	1,831.2	2,331.9	2,941.8	3,673.9	4,534.3	5,447.4	6,394.6	7,359.7	8,352.2	9,384.5	10,518.2	11,721.2	12,997.1	14,344.3	15,760.5
Short	Turbine	200 bar	1,821.6	2,322.0	2,956.8	3,730.1	4,658.4	5,749.4	6,907.1	8,108.2	9,331.9	10,590.3	11,899.4	13,336.8	14,862.2	16,480.0	18,188.2	19,983.9
Short	Turbine	20 bar	1,457.0	1,857.1	2,364.9	2,983.4	3,725.9	4,598.5	5,524.4	6,485.0	7,463.8	8,470.3	9,517.3	10,667.0	11,887.0	13,180.9	14,547.1	15,983.4

PRJ GHG Emissions (MT CO2e/yr) - Ambitious

	Ambitious	Overall GHG (MT CO2e)	Year															
Transmission	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	6,856.6	8,054.4	9,374.9	10,833.6	12,441.4	14,197.9	16,024.3	18,011.0	19,998.1	22,057.2	24,215.4	26,423.2	28,740.6	31,176.9	33,706.9	36,342.5
Long	Reciprocating	20 bar	5,627.2	6,610.3	7,694.0	8,891.1	10,210.7	11,652.2	13,151.2	14,781.7	16,412.5	18,102.4	19,873.6	21,685.6	23,587.4	25,586.9	27,663.3	29,826.3
Long	Turbine	200 bar	7,135.1	8,381.6	9,755.8	11,273.7	12,946.9	14,774.7	16,675.4	18,742.8	20,810.6	22,953.4	25,199.2	27,496.7	29,908.3	32,443.6	35,076.4	37,819.0
Long	Turbine	20 bar	5,706.8	6,703.8	7,802.8	9,016.9	10,355.1	11,817.0	13,337.2	14,990.7	16,644.6	18,358.4	20,154.6	21,992.3	23,921.1	25,948.8	28,054.6	30,248.2
Short	Reciprocating	200 bar	6,856.6	8,054.4	9,374.9	10,833.6	12,441.4	14,197.9	16,024.3	18,011.0	19,998.1	22,057.2	24,215.4	26,423.2	28,740.6	31,176.9	33,706.9	36,342.5
Short	Reciprocating	20 bar	5,627.2	6,610.3	7,694.0	8,891.1	10,210.7	11,652.2	13,151.2	14,781.7	16,412.5	18,102.4	19,873.6	21,685.6	23,587.4	25,586.9	27,663.3	29,826.3
Short	Turbine	200 bar	7,135.1	8,381.6	9,755.8	11,273.7	12,946.9	14,774.7	16,675.4	18,742.8	20,810.6	22,953.4	25,199.2	27,496.7	29,908.3	32,443.6	35,076.4	37,819.0
Short	Turbine	20 bar	5,706.8	6,703.8	7,802.8	9,016.9	10,355.1	11,817.0	13,337.2	14,990.7	16,644.6	18,358.4	20,154.6	21,992.3	23,921.1	25,948.8	28,054.6	30,248.2

Angeles Link Throughput Scenario - Storage and Transmission - GHG

AL PRJ GHG Emissions S&T (MT CO2e/yr) - Low

	Low	Overall GHG (MT CO2e)	**Year**															
Transmission Scenario	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	218.2	290.7	390.3	518.0	675.5	866.6	1,065.2	1,263.2	1,460.9	1,659.3	1,861.0	2,084.5	2,326.8	2,588.0	2,867.4	3,164.9
Long	Reciprocating	20 bar	179.1	238.6	320.3	425.1	554.4	711.2	874.2	1,036.7	1,199.0	1,361.8	1,527.3	1,710.7	1,909.6	2,124.0	2,353.3	2,597.5
Long	Turbine	200 bar	227.1	302.5	406.1	539.1	702.9	901.8	1,108.5	1,314.6	1,520.2	1,726.7	1,936.6	2,169.2	2,421.3	2,693.1	2,983.9	3,293.5
Long	Turbine	20 bar	181.6	242.0	324.8	431.2	562.2	721.3	886.6	1,051.4	1,215.9	1,381.1	1,548.9	1,734.9	1,936.6	2,154.0	2,386.6	2,634.2
Short	Reciprocating	200 bar	218.2	290.7	390.3	518.0	675.5	866.6	1,065.2	1,263.2	1,460.9	1,659.3	1,861.0	2,084.5	2,326.8	2,588.0	2,867.4	3,164.9
Short	Reciprocating	20 bar	179.1	238.6	320.3	425.1	554.4	711.2	874.2	1,036.7	1,199.0	1,361.8	1,527.3	1,710.7	1,909.6	2,124.0	2,353.3	2,597.5
Short	Turbine	200 bar	227.1	302.5	406.1	539.1	702.9	901.8	1,108.5	1,314.6	1,520.2	1,726.7	1,936.6	2,169.2	2,421.3	2,693.1	2,983.9	3,293.5
Short	Turbine	20 bar	181.6	242.0	324.8	431.2	562.2	721.3	886.6	1,051.4	1,215.9	1,381.1	1,548.9	1,734.9	1,936.6	2,154.0	2,386.6	2,634.2

AL PRJ GHG Emissions S&T (MT CO2e/yr) - Medium

	Medium	Overall GHG (MT CO2e)	**Year**															
Transmission Scenario	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	544.8	694.5	884.3	1,115.6	1,393.2	1,719.5	2,065.8	2,425.0	2,791.0	3,167.4	3,558.9	3,988.8	4,445.0	4,928.9	5,439.7	5,976.8
Long	Reciprocating	20 bar	447.1	569.9	725.8	915.6	1,143.4	1,411.2	1,695.4	1,990.2	2,290.6	2,599.5	2,920.8	3,273.6	3,648.0	4,045.1	4,464.4	4,905.2
Long	Turbine	200 bar	566.9	722.7	920.3	1,160.9	1,449.8	1,789.4	2,149.7	2,523.5	2,904.4	3,296.0	3,703.5	4,150.9	4,625.6	5,129.1	5,660.7	6,219.6
Long	Turbine	20 bar	453.5	578.0	736.0	928.5	1,159.6	1,431.2	1,719.4	2,018.4	2,323.0	2,636.2	2,962.1	3,319.9	3,699.6	4,102.3	4,527.5	4,974.6
Short	Reciprocating	200 bar	544.8	694.5	884.3	1,115.6	1,393.2	1,719.5	2,065.8	2,425.0	2,791.0	3,167.4	3,558.9	3,988.8	4,445.0	4,928.9	5,439.7	5,976.8
Short	Reciprocating	20 bar	447.1	569.9	725.8	915.6	1,143.4	1,411.2	1,695.4	1,990.2	2,290.6	2,599.5	2,920.8	3,273.6	3,648.0	4,045.1	4,464.4	4,905.2
Short	Turbine	200 bar	566.9	722.7	920.3	1,160.9	1,449.8	1,789.4	2,149.7	2,523.5	2,904.4	3,296.0	3,703.5	4,150.9	4,625.6	5,129.1	5,660.7	6,219.6
Short	Turbine	20 bar	453.5	578.0	736.0	928.5	1,159.6	1,431.2	1,719.4	2,018.4	2,323.0	2,636.2	2,962.1	3,319.9	3,699.6	4,102.3	4,527.5	4,974.6

AL PRJ GHG Emissions S&T (MT CO2e/yr) - High

	High	Overall GHG (MT CO2e)	**Year**															
Transmission Scenario	**Power Scenario**	**Storage Scenario**	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Long	Reciprocating	200 bar	1,738.9	2,042.7	2,377.6	2,747.5	3,155.3	3,600.8	4,064.0	4,567.8	5,071.8	5,594.0	6,141.3	6,701.3	7,289.0	7,906.9	8,548.5	9,217.0
Long	Reciprocating	20 bar	1,427.1	1,676.5	1,951.3	2,254.9	2,589.6	2,955.2	3,335.3	3,748.8	4,162.4	4,591.0	5,040.2	5,499.8	5,982.1	6,489.2	7,015.8	7,564.4
Long	Turbine	200 bar	1,809.6	2,125.7	2,474.2	2,859.2	3,283.5	3,747.1	4,229.1	4,753.4	5,277.8	5,821.3	6,390.9	6,973.5	7,585.1	8,228.1	8,895.8	9,591.4
Long	Turbine	20 bar	1,447.3	1,700.2	1,978.9	2,286.8	2,626.2	2,997.0	3,382.5	3,801.9	4,221.3	4,655.9	5,111.5	5,577.5	6,066.7	6,581.0	7,115.0	7,671.3
Short	Reciprocating	200 bar	1,738.9	2,042.7	2,377.6	2,747.5	3,155.3	3,600.8	4,064.0	4,567.8	5,071.8	5,594.0	6,141.3	6,701.3	7,289.0	7,906.9	8,548.5	9,217.0
Short	Reciprocating	20 bar	1,427.1	1,676.5	1,951.3	2,254.9	2,589.6	2,955.2	3,335.3	3,748.8	4,162.4	4,591.0	5,040.2	5,499.8	5,982.1	6,489.2	7,015.8	7,564.4
Short	Turbine	200 bar	1,809.6	2,125.7	2,474.2	2,859.2	3,283.5	3,747.1	4,229.1	4,753.4	5,277.8	5,821.3	6,390.9	6,973.5	7,585.1	8,228.1	8,895.8	9,591.4
Short	Turbine	20 bar	1,447.3	1,700.2	1,978.9	2,286.8	2,626.2	2,997.0	3,382.5	3,801.9	4,221.3	4,655.9	5,111.5	5,577.5	6,066.7	6,581.0	7,115.0	7,671.3

Appendix C.2:

Mobility

GHG Results, Calculations, and Data

	A	B	D	E
1				
2		**Tab Contents**		
3		This tab demonstrates which applications fall within each subsector within the Mobility sector.		
4				
5		**Sector**	**Application**	**Subsector**
6		Industrial	Food & Beverage	Food & Beverage
7		Industrial	Chemicals	Chemicals
8		Industrial	Metals	Metals
9		Industrial	Paper	Paper
10		Industrial	Refineries	Refineries
11		Industrial	Stone/Gypsum	Stone, Glass & Cement
12		Industrial	Clay	Stone, Glass & Cement
13		Industrial	Cement	Stone, Glass & Cement
14		Industrial	Glass	Stone, Glass & Cement
15		Industrial	Aerospace & Defense	Aerospace & Defense
16		Mobility	Agricultural Tractors	Agriculture
17		Mobility	ATVs	Agriculture
18		Mobility	Bale Wagons (Self Propelled)	Agriculture
19		Mobility	Balers (Self Propelled)	Agriculture
20		Mobility	Combine Harvesters	Agriculture
21		Mobility	Construction Equipment	Agriculture
22		Mobility	Cotton Pickers	Agriculture
23		Mobility	Forage & Silage Harvesters	Agriculture
24		Mobility	Forklifts	Agriculture
25		Mobility	Hay Squeeze/Stack Retriever	Agriculture
26		Mobility	Nut Harvester	Agriculture
27		Mobility	Other Harvesters	Agriculture
28		Mobility	Sprayers/Spray Rigs	Agriculture
29		Mobility	Swathers/Windrowers/Hay Conditioners	Agriculture
31		Mobility	All Other Buses	Bus
32		Mobility	Motor Coach	Bus
33		Mobility	OBUS	Bus
34		Mobility	SBUS	Bus
35		Mobility	UBUS	Bus
36		Mobility	Barge/Dredge - AE	CHC
37		Mobility	Commercial Fishing - AE	CHC
38		Mobility	Commercial Fishing - ME	CHC
39		Mobility	Excursion - AE	CHC
40		Mobility	Excursion - ME	CHC
41		Mobility	Ferry - AE	CHC
42		Mobility	Ferry - ME	CHC
43		Mobility	Other - AE	CHC
44		Mobility	Other - ME	CHC
45		Mobility	Tugboat - AE	CHC
46		Mobility	Tugboat - ME	CHC
47		Mobility	AGV	CHE
48		Mobility	Bulldozer	CHE
49		Mobility	Cone vehicle	CHE
50		Mobility	Container Handling Equipment	CHE
51		Mobility	Excavator	CHE
52		Mobility	Forklift	CHE
53		Mobility	Man Lift	CHE
54		Mobility	Port Crane	CHE
55		Mobility	Rail Pusher	CHE
56		Mobility	RTG Crane	CHE
57		Mobility	Skid steer	CHE
58		Mobility	Tractor	CHE
59		Mobility	Truck	CHE
60		Mobility	Yard Truck	CHE
61		Mobility	Asphalt Pavers	Construction and Mining
62		Mobility	Bore/Drill Rigs	Construction and Mining
63		Mobility	Cement and Mortar Mixers	Construction and Mining
64		Mobility	Concrete/Industrial Saws	Construction and Mining
65		Mobility	Cranes	Construction and Mining
66		Mobility	Crawler Tractors	Construction and Mining
67		Mobility	Crushing/Proc. Equipment	Construction and Mining
68		Mobility	Dumpers/Tenders	Construction and Mining
69		Mobility	Excavators	Construction and Mining
70		Mobility	Graders	Construction and Mining
71		Mobility	Off Highway Tractors	Construction and Mining

	A	B	D	E
1				
2		**Tab Contents**		
3		This tab demonstrates which applications fall within each subsector within the Mobility sector.		
4				
5		**Sector**	**Application**	**Subsector**
72		Mobility	Off Highway Trucks	Construction and Mining
73		Mobility	Other	Construction and Mining
74		Mobility	Pavers	Construction and Mining
75		Mobility	Paving Equipment	Construction and Mining
76		Mobility	Plate Compactors	Construction and Mining
77		Mobility	Rollers	Construction and Mining
78		Mobility	Rough Terrain Forklifts	Construction and Mining
79		Mobility	Rubber Tired Dozers	Construction and Mining
80		Mobility	Rubber Tired Loaders	Construction and Mining
81		Mobility	Scrapers	Construction and Mining
82		Mobility	Signal Boards	Construction and Mining
83		Mobility	Skid Steer Loaders	Construction and Mining
84		Mobility	Surfacing Equipment	Construction and Mining
85		Mobility	Tampers/Rammers	Construction and Mining
86		Mobility	Tractors/Loaders/Backhoes	Construction and Mining
87		Mobility	Trenchers	Construction and Mining
88		Mobility	A/C TugNarrow Body	GSE
89		Mobility	A/C TugWide Body	GSE
90		Mobility	Air Conditioner	GSE
91		Mobility	Air Start Unit	GSE
92		Mobility	Baggage Tug	GSE
93		Mobility	Belt Loader	GSE
94		Mobility	Bobtail	GSE
95		Mobility	Cargo Loader	GSE
96		Mobility	Cargo Tractor	GSE
97		Mobility	Cart	GSE
98		Mobility	Catering Truck	GSE
99		Mobility	Deicer	GSE
100		Mobility	Forklift	GSE
101		Mobility	Fuel Truck	GSE
102		Mobility	Generator	GSE
103		Mobility	Ground Power Unit	GSE
104		Mobility	Hydrant Truck	GSE
105		Mobility	Lav Cart	GSE
106		Mobility	Lav Truck	GSE
107		Mobility	Lift	GSE
108		Mobility	Maint. Truck	GSE
109		Mobility	Other	GSE
110		Mobility	Passenger Stand	GSE
111		Mobility	Service Truck	GSE
112		Mobility	Sweeper	GSE
113		Mobility	Water Truck	GSE
118		Mobility	LHD1	MDV
119		Mobility	LHD2	MDV
120		Mobility	MH	MDV
121		Mobility	T6 CAIRP Class 4	MDV
122		Mobility	T6 CAIRP Class 5	MDV
123		Mobility	T6 CAIRP Class 6	MDV
124		Mobility	T6 CAIRP Class 7	MDV
125		Mobility	T6 Instate Delivery Class 4	MDV
126		Mobility	T6 Instate Delivery Class 5	MDV
127		Mobility	T6 Instate Delivery Class 6	MDV
128		Mobility	T6 Instate Delivery Class 7	MDV
129		Mobility	T6 Instate Other Class 4	MDV
130		Mobility	T6 Instate Other Class 5	MDV
131		Mobility	T6 Instate Other Class 6	MDV
132		Mobility	T6 Instate Other Class 7	MDV
133		Mobility	T6 Instate Tractor Class 6	MDV
134		Mobility	T6 Instate Tractor Class 7	MDV
135		Mobility	T6 OOS Class 4	MDV
136		Mobility	T6 OOS Class 5	MDV
137		Mobility	T6 OOS Class 6	MDV
138		Mobility	T6 OOS Class 7	MDV
139		Mobility	T6 Public Class 4	MDV
140		Mobility	T6 Public Class 5	MDV

	A	B	D	E
1				
2		**Tab Contents**		
3		This tab demonstrates which applications fall within each subsector within the Mobility sector.		
4				
5		**Sector**	**Application**	**Subsector**
141		Mobility	T6 Public Class 6	MDV
142		Mobility	T6 Public Class 7	MDV
143		Mobility	T6 Utility Class 5	MDV
144		Mobility	T6 Utility Class 6	MDV
145		Mobility	T6 Utility Class 7	MDV
146		Mobility	T6TS	MDV
147		Mobility	T7 CAIRP Class 8	HDV
148		Mobility	T7 NNOOS Class 8	HDV
149		Mobility	T7 NOOS Class 8	HDV
150		Mobility	T7 Other Port Class 8	HDV
151		Mobility	T7 POAK Class 8	HDV
152		Mobility	T7 POLA Class 8	HDV
153		Mobility	T7 Public Class 8	HDV
154		Mobility	T7 Single Concrete/Transit Mix Class 8	HDV
155		Mobility	T7 Single Dump Class 8	HDV
156		Mobility	T7 Single Other Class 8	HDV
157		Mobility	T7 SWCV Class 8	HDV
158		Mobility	T7 Tractor Class 8	HDV
159		Mobility	T7 Utility Class 8	HDV
160		Mobility	T7IS	HDV
170		Power	Turbines	Baseload & Peaker

	A	B	C	D	E	F	G	H
1								
2		**Tab Contents**						
3		This tab outlines the weighted pollutant emission factors developed for each subsector, year, and fuel type from the EMFAC data. Background data and weighting is occuring on the tabs titled, "Onroad_GHG_day" and "Offroad_GHG_day" except for Offroad CH4 and N2O emission factors. Offoad CH4 and N2O emission factors are pulling from tab "OffRoadCH4N2O".						
4								
5		**Subsector**	**Year**	**Fuel Type**	**CO2 (MT/gal)**	**CH4 (MT/gal)**	**N2O (MT/gal)**	
74	On-Road	MDV	2030	Diesel	0.010155477	3.64602E-08	1.6E-06	
75	On-Road	MDV	2031	Diesel	0.010155477	3.49377E-08	1.6E-06	
76	On-Road	MDV	2032	Diesel	0.010155477	3.36813E-08	1.6E-06	
77	On-Road	MDV	2033	Diesel	0.010155477	3.24968E-08	1.6E-06	
78	On-Road	MDV	2034	Diesel	0.010155477	3.16373E-08	1.6E-06	
79	On-Road	MDV	2035	Diesel	0.010155477	3.075E-08	1.6E-06	
80	On-Road	MDV	2036	Diesel	0.010155477	2.99234E-08	1.6E-06	
81	On-Road	MDV	2037	Diesel	0.010155477	2.9035E-08	1.6E-06	
82	On-Road	MDV	2038	Diesel	0.010155477	2.80134E-08	1.6E-06	
83	On-Road	MDV	2039	Diesel	0.010155477	2.72039E-08	1.6E-06	
84	On-Road	MDV	2040	Diesel	0.010155477	2.64451E-08	1.6E-06	
85	On-Road	MDV	2041	Diesel	0.010155477	2.57975E-08	1.6E-06	
86	On-Road	MDV	2042	Diesel	0.010155477	2.51632E-08	1.6E-06	
87	On-Road	MDV	2043	Diesel	0.010155477	2.46456E-08	1.6E-06	
88	On-Road	MDV	2044	Diesel	0.010155477	2.40082E-08	1.6E-06	
89	On-Road	MDV	2045	Diesel	0.010155477	2.34504E-08	1.6E-06	
95	On-Road	MDV	2030	Gasoline	0.008603087	1.88255E-07	2.64375E-07	
96	On-Road	MDV	2031	Gasoline	0.008603087	1.8178E-07	2.59017E-07	
97	On-Road	MDV	2032	Gasoline	0.008603087	1.76071E-07	2.54931E-07	
98	On-Road	MDV	2033	Gasoline	0.008603087	1.74261E-07	2.52722E-07	
99	On-Road	MDV	2034	Gasoline	0.008603087	1.72933E-07	2.50478E-07	
100	On-Road	MDV	2035	Gasoline	0.008603087	1.71425E-07	2.48597E-07	
101	On-Road	MDV	2036	Gasoline	0.008603087	1.70096E-07	2.46965E-07	
102	On-Road	MDV	2037	Gasoline	0.008603087	1.68771E-07	2.45264E-07	
103	On-Road	MDV	2038	Gasoline	0.008603087	1.67525E-07	2.44087E-07	
104	On-Road	MDV	2039	Gasoline	0.008603087	1.65803E-07	2.42123E-07	
105	On-Road	MDV	2040	Gasoline	0.008603087	1.63659E-07	2.39845E-07	
106	On-Road	MDV	2041	Gasoline	0.008603087	1.6235E-07	2.3841E-07	
107	On-Road	MDV	2042	Gasoline	0.008603087	1.60736E-07	2.37328E-07	
108	On-Road	MDV	2043	Gasoline	0.008603087	1.59269E-07	2.36583E-07	
109	On-Road	MDV	2044	Gasoline	0.008603087	1.57227E-07	2.35941E-07	
110	On-Road	MDV	2045	Gasoline	0.008603087	1.54682E-07	2.3495E-07	
137	On-Road	HDV	2030	Diesel	0.010155477	1.81252E-08	1.6E-06	
138	On-Road	HDV	2031	Diesel	0.010155477	1.82993E-08	1.6E-06	
139	On-Road	HDV	2032	Diesel	0.010155477	1.84603E-08	1.6E-06	
140	On-Road	HDV	2033	Diesel	0.010155477	1.85962E-08	1.6E-06	
141	On-Road	HDV	2034	Diesel	0.010155477	1.87146E-08	1.6E-06	
142	On-Road	HDV	2035	Diesel	0.010155477	1.88148E-08	1.6E-06	
143	On-Road	HDV	2036	Diesel	0.010155477	1.89556E-08	1.6E-06	
144	On-Road	HDV	2037	Diesel	0.010155477	1.90821E-08	1.6E-06	
145	On-Road	HDV	2038	Diesel	0.010155477	1.91944E-08	1.6E-06	
146	On-Road	HDV	2039	Diesel	0.010155477	1.92982E-08	1.6E-06	
147	On-Road	HDV	2040	Diesel	0.010155477	1.93944E-08	1.6E-06	
148	On-Road	HDV	2041	Diesel	0.010155477	1.94842E-08	1.6E-06	
149	On-Road	HDV	2042	Diesel	0.010155477	1.95648E-08	1.6E-06	
150	On-Road	HDV	2043	Diesel	0.010155477	1.9639E-08	1.6E-06	
151	On-Road	HDV	2044	Diesel	0.010155477	1.9708E-08	1.6E-06	
152	On-Road	HDV	2045	Diesel	0.010155477	1.97708E-08	1.6E-06	
158	On-Road	HDV	2030	Gasoline	0.008603087	3.73337E-07	5.7887E-07	
159	On-Road	HDV	2031	Gasoline	0.008603087	3.61487E-07	5.68667E-07	
160	On-Road	HDV	2032	Gasoline	0.008603087	3.596E-07	5.59705E-07	
161	On-Road	HDV	2033	Gasoline	0.008603087	3.61373E-07	5.58884E-07	
162	On-Road	HDV	2034	Gasoline	0.008603087	3.60603E-07	5.58252E-07	
163	On-Road	HDV	2035	Gasoline	0.008603087	3.61864E-07	5.58758E-07	
164	On-Road	HDV	2036	Gasoline	0.008603087	3.6656E-07	5.56485E-07	
165	On-Road	HDV	2037	Gasoline	0.008603087	3.70179E-07	5.51558E-07	
166	On-Road	HDV	2038	Gasoline	0.008603087	3.72093E-07	5.46868E-07	
167	On-Road	HDV	2039	Gasoline	0.008603087	3.73707E-07	5.42346E-07	

	A	B	C	D	E	F	G	H
5		Subsector	Year	Fuel Type	CO2 (MT/gal)	CH4 (MT/gal)	N2O (MT/gal)	
168	On-Road	HDV	2040	Gasoline	0.008603087	3.76603E-07	5.38901E-07	
169	On-Road	HDV	2041	Gasoline	0.008603087	3.77473E-07	5.35402E-07	
170	On-Road	HDV	2042	Gasoline	0.008603087	3.77739E-07	5.25207E-07	
171	On-Road	HDV	2043	Gasoline	0.008603087	3.77105E-07	5.25919E-07	
172	On-Road	HDV	2044	Gasoline	0.008603087	3.76302E-07	5.30663E-07	
173	On-Road	HDV	2045	Gasoline	0.008603087	3.7494E-07	5.37994E-07	
200	On-Road	Bus	2030	Diesel	0.010155477	2.62045E-08	1.6E-06	
201	On-Road	Bus	2031	Diesel	0.010155477	2.51679E-08	1.6E-06	
202	On-Road	Bus	2032	Diesel	0.010155477	2.40176E-08	1.6E-06	
203	On-Road	Bus	2033	Diesel	0.010155477	2.27905E-08	1.6E-06	
204	On-Road	Bus	2034	Diesel	0.010155477	2.15739E-08	1.6E-06	
205	On-Road	Bus	2035	Diesel	0.010155477	2.03711E-08	1.6E-06	
206	On-Road	Bus	2036	Diesel	0.010155477	1.9361E-08	1.6E-06	
207	On-Road	Bus	2037	Diesel	0.010155477	1.83713E-08	1.6E-06	
208	On-Road	Bus	2038	Diesel	0.010155477	1.74148E-08	1.6E-06	
209	On-Road	Bus	2039	Diesel	0.010155477	1.64368E-08	1.6E-06	
210	On-Road	Bus	2040	Diesel	0.010155477	1.54172E-08	1.6E-06	
211	On-Road	Bus	2041	Diesel	0.010155477	1.45385E-08	1.6E-06	
212	On-Road	Bus	2042	Diesel	0.010155477	1.35036E-08	1.6E-06	
213	On-Road	Bus	2043	Diesel	0.010155477	1.26057E-08	1.6E-06	
214	On-Road	Bus	2044	Diesel	0.010155477	1.19026E-08	1.6E-06	
215	On-Road	Bus	2045	Diesel	0.010155477	1.13357E-08	1.6E-06	
221	On-Road	Bus	2030	Gasoline	0.008603087	2.62008E-07	1.89996E-07	
222	On-Road	Bus	2031	Gasoline	0.008603087	2.65636E-07	1.88366E-07	
223	On-Road	Bus	2032	Gasoline	0.008603087	2.6737E-07	1.85802E-07	
224	On-Road	Bus	2033	Gasoline	0.008603087	2.69088E-07	1.80784E-07	
225	On-Road	Bus	2034	Gasoline	0.008603087	2.69517E-07	1.75757E-07	
226	On-Road	Bus	2035	Gasoline	0.008603087	2.77899E-07	1.72236E-07	
227	On-Road	Bus	2036	Gasoline	0.008603087	2.79223E-07	1.70786E-07	
228	On-Road	Bus	2037	Gasoline	0.008603087	2.86854E-07	1.72526E-07	
229	On-Road	Bus	2038	Gasoline	0.008603087	2.91856E-07	1.72672E-07	
230	On-Road	Bus	2039	Gasoline	0.008603087	3.02935E-07	1.7252E-07	
231	On-Road	Bus	2040	Gasoline	0.008603087	3.09833E-07	1.7068E-07	
232	On-Road	Bus	2041	Gasoline	0.008603087	3.05371E-07	1.66396E-07	
233	On-Road	Bus	2042	Gasoline	0.008603087	3.02348E-07	1.64423E-07	
234	On-Road	Bus	2043	Gasoline	0.008603087	3.01539E-07	1.67449E-07	
235	On-Road	Bus	2044	Gasoline	0.008603087	2.98448E-07	1.69203E-07	
236	On-Road	Bus	2045	Gasoline	0.008603087	2.93843E-07	1.69821E-07	
263	Off-Road	Agriculture	2030	Diesel	0.010179997	0.00000127	0.00000107	
264	Off-Road	Agriculture	2031	Diesel	0.010179997	0.00000127	0.00000107	
265	Off-Road	Agriculture	2032	Diesel	0.010179997	0.00000127	0.00000107	
266	Off-Road	Agriculture	2033	Diesel	0.010179997	0.00000127	0.00000107	
267	Off-Road	Agriculture	2034	Diesel	0.010179997	0.00000127	0.00000107	
268	Off-Road	Agriculture	2035	Diesel	0.010179997	0.00000127	0.00000107	
269	Off-Road	Agriculture	2036	Diesel	0.010179997	0.00000127	0.00000107	
270	Off-Road	Agriculture	2037	Diesel	0.010179997	0.00000127	0.00000107	
271	Off-Road	Agriculture	2038	Diesel	0.010179997	0.00000127	0.00000107	
272	Off-Road	Agriculture	2039	Diesel	0.010179997	0.00000127	0.00000107	
273	Off-Road	Agriculture	2040	Diesel	0.010179997	0.00000127	0.00000107	
274	Off-Road	Agriculture	2041	Diesel	0.010179997	0.00000127	0.00000107	
275	Off-Road	Agriculture	2042	Diesel	0.010179997	0.00000127	0.00000107	
276	Off-Road	Agriculture	2043	Diesel	0.010179997	0.00000127	0.00000107	
277	Off-Road	Agriculture	2044	Diesel	0.010179997	0.00000127	0.00000107	
278	Off-Road	Agriculture	2045	Diesel	0.010179997	0.00000127	0.00000107	
284	Off-Road	Agriculture	2030	Gasoline	0.010216997	0.00000193	0.0000012	
285	Off-Road	Agriculture	2031	Gasoline	0.010216997	0.00000193	0.0000012	
286	Off-Road	Agriculture	2032	Gasoline	0.010216997	0.00000193	0.0000012	
287	Off-Road	Agriculture	2033	Gasoline	0.010216997	0.00000193	0.0000012	
288	Off-Road	Agriculture	2034	Gasoline	0.010216997	0.00000193	0.0000012	
289	Off-Road	Agriculture	2035	Gasoline	0.010216997	0.00000193	0.0000012	
290	Off-Road	Agriculture	2036	Gasoline	0.010216997	0.00000193	0.0000012	
291	Off-Road	Agriculture	2037	Gasoline	0.010216997	0.00000193	0.0000012	
292	Off-Road	Agriculture	2038	Gasoline	0.010216997	0.00000193	0.0000012	
293	Off-Road	Agriculture	2039	Gasoline	0.010216997	0.00000193	0.0000012	
294	Off-Road	Agriculture	2040	Gasoline	0.010216997	0.00000193	0.0000012	
295	Off-Road	Agriculture	2041	Gasoline	0.010216997	0.00000193	0.0000012	
296	Off-Road	Agriculture	2042	Gasoline	0.010216997	0.00000193	0.0000012	
297	Off-Road	Agriculture	2043	Gasoline	0.010216997	0.00000193	0.0000012	
298	Off-Road	Agriculture	2044	Gasoline	0.010216997	0.00000193	0.0000012	
299	Off-Road	Agriculture	2045	Gasoline	0.010216997	0.00000193	0.0000012	
326	Off-Road	CHC	2030	Diesel	0.00938165	0.00000641	0.00000017	
327	Off-Road	CHC	2031	Diesel	0.009325812	0.00000641	0.00000017	
328	Off-Road	CHC	2032	Diesel	0.009325471	0.00000641	0.00000017	
329	Off-Road	CHC	2033	Diesel	0.00932513	0.00000641	0.00000017	

	A	B	C	D	E	F	G	H
5		Subsector	Year	Fuel Type	CO2 (MT/gal)	CH4 (MT/gal)	N2O (MT/gal)	
330	Off-Road	CHC	2034	Diesel	0.009324786	0.00000641	0.00000017	
331	Off-Road	CHC	2035	Diesel	0.009324422	0.00000641	0.00000017	
332	Off-Road	CHC	2036	Diesel	0.009324045	0.00000641	0.00000017	
333	Off-Road	CHC	2037	Diesel	0.009323666	0.00000641	0.00000017	
334	Off-Road	CHC	2038	Diesel	0.009323274	0.00000641	0.00000017	
335	Off-Road	CHC	2039	Diesel	0.009322868	0.00000641	0.00000017	
336	Off-Road	CHC	2040	Diesel	0.009322406	0.00000641	0.00000017	
337	Off-Road	CHC	2041	Diesel	0.009321924	0.00000641	0.00000017	
338	Off-Road	CHC	2042	Diesel	0.009321415	0.00000641	0.00000017	
339	Off-Road	CHC	2043	Diesel	0.009320875	0.00000641	0.00000017	
340	Off-Road	CHC	2044	Diesel	0.009320315	0.00000641	0.00000017	
341	Off-Road	CHC	2045	Diesel	0.009319733	0.00000641	0.00000017	
347	Off-Road	CHC	2030	Gasoline	0	0	0	
348	Off-Road	CHC	2031	Gasoline	0	0	0	
349	Off-Road	CHC	2032	Gasoline	0	0	0	
350	Off-Road	CHC	2033	Gasoline	0	0	0	
351	Off-Road	CHC	2034	Gasoline	0	0	0	
352	Off-Road	CHC	2035	Gasoline	0	0	0	
353	Off-Road	CHC	2036	Gasoline	0	0	0	
354	Off-Road	CHC	2037	Gasoline	0	0	0	
355	Off-Road	CHC	2038	Gasoline	0	0	0	
356	Off-Road	CHC	2039	Gasoline	0	0	0	
357	Off-Road	CHC	2040	Gasoline	0	0	0	
358	Off-Road	CHC	2041	Gasoline	0	0	0	
359	Off-Road	CHC	2042	Gasoline	0	0	0	
360	Off-Road	CHC	2043	Gasoline	0	0	0	
361	Off-Road	CHC	2044	Gasoline	0	0	0	
362	Off-Road	CHC	2045	Gasoline	0	0	0	
389	Off-Road	CHE	2030	Diesel	0.010179997	0.00000041	0.0000006	
390	Off-Road	CHE	2031	Diesel	0.010179997	0.00000041	0.0000006	
391	Off-Road	CHE	2032	Diesel	0.010179997	0.00000041	0.0000006	
392	Off-Road	CHE	2033	Diesel	0.010179997	0.00000041	0.0000006	
393	Off-Road	CHE	2034	Diesel	0.010179997	0.00000041	0.0000006	
394	Off-Road	CHE	2035	Diesel	0.010179997	0.00000041	0.0000006	
395	Off-Road	CHE	2036	Diesel	0.010179997	0.00000041	0.0000006	
396	Off-Road	CHE	2037	Diesel	0.010179997	0.00000041	0.0000006	
397	Off-Road	CHE	2038	Diesel	0.010179997	0.00000041	0.0000006	
398	Off-Road	CHE	2039	Diesel	0.010179997	0.00000041	0.0000006	
399	Off-Road	CHE	2040	Diesel	0.010179997	0.00000041	0.0000006	
400	Off-Road	CHE	2041	Diesel	0.010179997	0.00000041	0.0000006	
401	Off-Road	CHE	2042	Diesel	0.010179997	0.00000041	0.0000006	
402	Off-Road	CHE	2043	Diesel	0.010179997	0.00000041	0.0000006	
403	Off-Road	CHE	2044	Diesel	0.010179997	0.00000041	0.0000006	
404	Off-Road	CHE	2045	Diesel	0.010179997	0.00000041	0.0000006	
410	Off-Road	CHE	2030	Gasoline	0.010206	0.00000274	0.00000154	
411	Off-Road	CHE	2031	Gasoline	0.010206	0.00000274	0.00000154	
412	Off-Road	CHE	2032	Gasoline	0.010206	0.00000274	0.00000154	
413	Off-Road	CHE	2033	Gasoline	0.010206	0.00000274	0.00000154	
414	Off-Road	CHE	2034	Gasoline	0.010206	0.00000274	0.00000154	
415	Off-Road	CHE	2035	Gasoline	0.010206	0.00000274	0.00000154	
416	Off-Road	CHE	2036	Gasoline	0.010206	0.00000274	0.00000154	
417	Off-Road	CHE	2037	Gasoline	0.010206	0.00000274	0.00000154	
418	Off-Road	CHE	2038	Gasoline	0.010206	0.00000274	0.00000154	
419	Off-Road	CHE	2039	Gasoline	0.010206	0.00000274	0.00000154	
420	Off-Road	CHE	2040	Gasoline	0.010206	0.00000274	0.00000154	
421	Off-Road	CHE	2041	Gasoline	0.010206	0.00000274	0.00000154	
422	Off-Road	CHE	2042	Gasoline	0.010206	0.00000274	0.00000154	
423	Off-Road	CHE	2043	Gasoline	0.010206	0.00000274	0.00000154	
424	Off-Road	CHE	2044	Gasoline	0.010206	0.00000274	0.00000154	
425	Off-Road	CHE	2045	Gasoline	0.010206	0.00000274	0.00000154	

	A	B	C	D	E	F	G	H
5		Subsector	Year	Fuel Type	CO2 (MT/gal)	CH4 (MT/gal)	N2O (MT/gal)	
452	Off-Road	C&M	2030	Diesel	0.01018989	0.00000101	0.00000094	
453	Off-Road	C&M	2031	Diesel	0.01018989	0.00000101	0.00000094	
454	Off-Road	C&M	2032	Diesel	0.01018989	0.00000101	0.00000094	
455	Off-Road	C&M	2033	Diesel	0.01018989	0.00000101	0.00000094	
456	Off-Road	C&M	2034	Diesel	0.01018989	0.00000101	0.00000094	
457	Off-Road	C&M	2035	Diesel	0.01018989	0.00000101	0.00000094	
458	Off-Road	C&M	2036	Diesel	0.01018989	0.00000101	0.00000094	
459	Off-Road	C&M	2037	Diesel	0.01018989	0.00000101	0.00000094	
460	Off-Road	C&M	2038	Diesel	0.010189889	0.00000101	0.00000094	
461	Off-Road	C&M	2039	Diesel	0.010189889	0.00000101	0.00000094	
462	Off-Road	C&M	2040	Diesel	0.010189889	0.00000101	0.00000094	
463	Off-Road	C&M	2041	Diesel	0.010189889	0.00000101	0.00000094	
464	Off-Road	C&M	2042	Diesel	0.010189889	0.00000101	0.00000094	
465	Off-Road	C&M	2043	Diesel	0.010189889	0.00000101	0.00000094	
466	Off-Road	C&M	2044	Diesel	0.010189889	0.00000101	0.00000094	
467	Off-Road	C&M	2045	Diesel	0.010189889	0.00000101	0.00000094	
473	Off-Road	C&M	2030	Gasoline	0.003868499	0.00000285	0.00000147	
474	Off-Road	C&M	2031	Gasoline	0.003862112	0.00000285	0.00000147	
475	Off-Road	C&M	2032	Gasoline	0.00385468	0.00000285	0.00000147	
476	Off-Road	C&M	2033	Gasoline	0.003847396	0.00000285	0.00000147	
477	Off-Road	C&M	2034	Gasoline	0.003839587	0.00000285	0.00000147	
478	Off-Road	C&M	2035	Gasoline	0.003831887	0.00000285	0.00000147	
479	Off-Road	C&M	2036	Gasoline	0.003824265	0.00000285	0.00000147	
480	Off-Road	C&M	2037	Gasoline	0.003816375	0.00000285	0.00000147	
481	Off-Road	C&M	2038	Gasoline	0.00380855	0.00000285	0.00000147	
482	Off-Road	C&M	2039	Gasoline	0.003801051	0.00000285	0.00000147	
483	Off-Road	C&M	2040	Gasoline	0.003793962	0.00000285	0.00000147	
484	Off-Road	C&M	2041	Gasoline	0.003793477	0.00000285	0.00000147	
485	Off-Road	C&M	2042	Gasoline	0.003793342	0.00000285	0.00000147	
486	Off-Road	C&M	2043	Gasoline	0.003795193	0.00000285	0.00000147	
487	Off-Road	C&M	2044	Gasoline	0.003798613	0.00000285	0.00000147	
488	Off-Road	C&M	2045	Gasoline	0.003803929	0.00000285	0.00000147	
515	Off-Road	GSE	2030	Diesel	0.010189895	0.00000188	0.00000116	
516	Off-Road	GSE	2031	Diesel	0.010189895	0.00000188	0.00000116	
517	Off-Road	GSE	2032	Diesel	0.010189895	0.00000188	0.00000116	
518	Off-Road	GSE	2033	Diesel	0.010189895	0.00000188	0.00000116	
519	Off-Road	GSE	2034	Diesel	0.010189895	0.00000188	0.00000116	
520	Off-Road	GSE	2035	Diesel	0.010189895	0.00000188	0.00000116	
521	Off-Road	GSE	2036	Diesel	0.010189895	0.00000188	0.00000116	
522	Off-Road	GSE	2037	Diesel	0.010189895	0.00000188	0.00000116	
523	Off-Road	GSE	2038	Diesel	0.010189895	0.00000188	0.00000116	
524	Off-Road	GSE	2039	Diesel	0.010189895	0.00000188	0.00000116	
525	Off-Road	GSE	2040	Diesel	0.010189895	0.00000188	0.00000116	
526	Off-Road	GSE	2041	Diesel	0.010189895	0.00000188	0.00000116	
527	Off-Road	GSE	2042	Diesel	0.010189895	0.00000188	0.00000116	
528	Off-Road	GSE	2043	Diesel	0.010189895	0.00000188	0.00000116	
529	Off-Road	GSE	2044	Diesel	0.010189895	0.00000188	0.00000116	
530	Off-Road	GSE	2045	Diesel	0.010189895	0.00000188	0.00000116	
536	Off-Road	GSE	2030	Gasoline	0.0080101	0.00000103	0.00000107	
537	Off-Road	GSE	2031	Gasoline	0.008007527	0.00000103	0.00000107	
538	Off-Road	GSE	2032	Gasoline	0.008015614	0.00000103	0.00000107	
539	Off-Road	GSE	2033	Gasoline	0.008018626	0.00000103	0.00000107	
540	Off-Road	GSE	2034	Gasoline	0.008018457	0.00000103	0.00000107	
541	Off-Road	GSE	2035	Gasoline	0.008018282	0.00000103	0.00000107	
542	Off-Road	GSE	2036	Gasoline	0.008017699	0.00000103	0.00000107	
543	Off-Road	GSE	2037	Gasoline	0.008017945	0.00000103	0.00000107	
544	Off-Road	GSE	2038	Gasoline	0.008017547	0.00000103	0.00000107	
545	Off-Road	GSE	2039	Gasoline	0.008016899	0.00000103	0.00000107	
546	Off-Road	GSE	2040	Gasoline	0.008015724	0.00000103	0.00000107	
547	Off-Road	GSE	2041	Gasoline	0.008015725	0.00000103	0.00000107	
548	Off-Road	GSE	2042	Gasoline	0.008015725	0.00000103	0.00000107	
549	Off-Road	GSE	2043	Gasoline	0.008015726	0.00000103	0.00000107	
550	Off-Road	GSE	2044	Gasoline	0.008015726	0.00000103	0.00000107	
551	Off-Road	GSE	2045	Gasoline	0.008015726	0.00000103	0.00000107	

Tab Contents

This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.

				Market Displaced Volumes (gal)					
				Diesel	Diesel	Diesel	Gasoline	Gasoline	Gasoline
7	On or Off Road	Subsector	Year	Conservative Scenario	Moderate Scenario	Ambitious Scenario	Conservative Scenario	Moderate Scenario	Ambitious Scenario
8	On-Road	MDV	2030	5,031,766.71	10,607,517.29	19,960,996.51	3,919,358.01	7,227,232.02	13,105,215.30
9	On-Road	MDV	2031	7,029,232.57	13,466,269.78	24,655,434.03	5,767,603.82	9,738,544.74	17,096,824.14
10	On-Road	MDV	2032	9,640,199.41	16,888,985.35	29,637,297.53	8,370,993.21	13,089,263.86	21,928,386.37
11	On-Road	MDV	2033	12,931,915.16	20,925,108.28	34,887,369.99	11,793,309.45	17,281,924.52	27,423,029.16
12	On-Road	MDV	2034	16,963,221.29	25,616,590.29	40,382,047.98	16,134,081.51	22,372,195.59	33,499,361.81
13	On-Road	MDV	2035	21,766,190.95	30,973,547.03	46,060,831.16	21,483,869.21	28,412,982.70	40,086,718.03
14	On-Road	MDV	2036	26,509,629.84	36,150,217.29	51,412,555.51	26,779,795.55	34,292,710.68	46,376,225.20
15	On-Road	MDV	2037	31,167,907.10	41,130,498.00	56,454,446.64	31,869,524.39	39,848,360.03	52,215,567.87
16	On-Road	MDV	2038	35,796,603.28	45,980,269.65	61,264,370.88	36,763,273.10	45,101,316.25	57,640,552.64
17	On-Road	MDV	2039	40,421,931.20	50,729,595.72	65,875,454.00	41,507,610.49	50,105,779.02	62,713,420.88
18	On-Road	MDV	2040	45,081,694.63	55,421,796.43	70,336,039.98	46,020,795.09	54,776,169.09	67,343,979.05
19	On-Road	MDV	2041	49,833,665.49	60,238,170.41	74,973,896.08	50,257,920.67	59,156,557.81	71,682,869.34
20	On-Road	MDV	2042	54,671,508.88	65,177,192.78	79,792,207.13	54,150,885.55	63,176,571.07	75,656,761.13
21	On-Road	MDV	2043	59,609,682.92	70,253,378.98	84,804,457.91	57,807,453.59	66,954,032.06	79,393,833.56
22	On-Road	MDV	2044	64,586,031.21	75,396,584.60	89,930,611.40	61,105,039.59	70,352,961.65	82,742,467.94
23	On-Road	MDV	2045	69,657,271.45	80,667,539.66	95,234,846.31	64,110,082.44	73,445,497.23	85,780,462.14
24	On-Road	HDV	2030	38,033,416.37	114,100,249.12	232,615,673.19	-	-	-
25	On-Road	HDV	2031	50,792,817.43	138,107,864.62	276,666,771.91	-	-	-
26	On-Road	HDV	2032	71,914,221.89	170,610,255.17	326,947,395.13	147.42	226.81	361.76
27	On-Road	HDV	2033	102,002,336.55	212,170,882.58	383,779,180.76	570.19	787.85	1,145.64
28	On-Road	HDV	2034	141,726,487.77	263,461,608.65	447,690,250.87	1,141.15	1,465.40	1,976.91
29	On-Road	HDV	2035	191,736,336.72	325,085,848.17	519,060,659.82	2,005.57	2,409.38	3,003.34
30	On-Road	HDV	2036	238,749,948.58	382,976,332.41	585,938,823.09	2,979.35	3,472.03	4,157.47
31	On-Road	HDV	2037	282,773,595.39	437,246,215.32	648,820,363.22	4,005.26	4,592.44	5,375.88
32	On-Road	HDV	2038	324,175,243.03	488,373,158.72	708,297,214.59	5,035.42	5,717.92	6,600.53
33	On-Road	HDV	2039	363,293,773.91	536,793,888.20	764,886,415.35	6,066.41	6,844.71	7,827.32
34	On-Road	HDV	2040	400,487,520.84	582,975,786.48	819,150,320.82	7,004.26	7,869.11	8,941.61
35	On-Road	HDV	2041	443,030,681.05	631,147,953.85	871,561,903.10	7,954.58	8,907.69	10,072.30
36	On-Road	HDV	2042	491,415,703.50	681,633,512.42	922,210,153.54	8,868.58	9,906.59	11,159.77
37	On-Road	HDV	2043	545,543,650.43	734,527,472.92	971,401,118.53	9,786.23	10,909.84	12,252.66

	A	B	C	D	E	F	G	H	I	J	Q
1											
2					**Tab Contents**						
3					This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.						
4											
5					**Market Displaced Volumes (gal)**						
6					**Diesel**	**Diesel**	**Diesel**	**Gasoline**	**Gasoline**	**Gasoline**	
7		**On or Off Road**	**Subsector**	**Year**	**Conservative Scenario**	**Moderate Scenario**	**Ambitious Scenario**	**Conservative Scenario**	**Moderate Scenario**	**Ambitious Scenario**	
38		On-Road	HDV	2044	605,185,543.72	789,787,785.60	1,019,298,701.67	10,668.85	11,874.79	13,303.79	
39		On-Road	HDV	2045	670,094,104.60	847,329,791.45	1,065,997,550.85	11,463.26	12,742.79	14,248.44	
40		On-Road	Bus	2030	2,744,478.52	5,668,100.97	10,487,814.17	41,655,936.59	86,106,404.81	159,342,697.44	
41		On-Road	Bus	2031	3,563,454.40	6,613,998.31	11,860,862.13	54,370,480.75	101,001,117.85	181,156,540.80	
42		On-Road	Bus	2032	4,500,173.88	7,613,987.74	13,086,957.27	68,697,365.69	116,417,332.29	200,225,710.29	
43		On-Road	Bus	2033	5,531,519.12	8,646,954.60	14,153,826.60	84,478,725.32	132,308,365.05	216,786,620.87	
44		On-Road	Bus	2034	6,675,698.62	9,741,178.18	15,114,636.74	101,565,123.63	148,622,813.31	231,070,804.23	
45		On-Road	Bus	2035	7,933,439.62	10,900,931.21	15,984,683.06	119,819,423.62	165,311,885.40	243,291,952.10	
46		On-Road	Bus	2036	9,055,752.83	11,926,372.11	16,729,011.72	146,948,644.89	191,985,477.00	266,829,381.49	
47		On-Road	Bus	2037	10,048,537.22	12,829,033.60	17,374,029.48	172,880,530.86	217,522,549.14	289,441,048.76	
48		On-Road	Bus	2038	10,913,327.34	13,609,162.09	17,917,764.16	197,121,422.38	241,477,310.53	310,820,958.30	
49		On-Road	Bus	2039	11,663,397.14	14,279,693.90	18,371,425.25	219,771,714.03	263,946,497.94	331,050,987.60	
50		On-Road	Bus	2040	12,304,307.50	14,845,125.92	18,736,986.59	240,971,524.00	285,060,889.38	350,232,222.44	
51		On-Road	Bus	2041	12,816,665.42	15,282,708.64	18,986,819.92	260,859,248.85	304,950,001.83	368,465,471.72	
52		On-Road	Bus	2042	13,320,049.72	15,722,824.78	19,262,225.97	279,533,624.64	323,701,398.92	385,808,459.02	
53		On-Road	Bus	2043	13,844,575.55	16,196,756.27	19,594,233.04	297,107,451.51	341,420,019.14	402,341,517.07	
54		On-Road	Bus	2044	14,304,309.15	16,608,857.92	19,875,578.06	313,649,779.18	358,164,326.32	418,096,878.11	
55		On-Road	Bus	2045	14,702,431.75	16,962,215.14	20,108,889.31	329,297,482.27	374,069,112.04	433,193,896.09	
56		Off-Road	Agriculture	2030	643,716.92	1,050,912.11	1,603,918.04	53,610.66	87,018.05	132,467.97	
57		Off-Road	Agriculture	2031	904,579.65	1,445,117.63	2,177,588.72	76,049.93	120,365.17	180,603.52	
58		Off-Road	Agriculture	2032	1,181,297.91	1,874,193.66	2,802,565.58	100,129.45	156,724.26	232,891.90	
59		Off-Road	Agriculture	2033	1,472,133.46	2,336,580.15	3,476,497.07	125,668.15	195,935.59	289,095.04	
60		Off-Road	Agriculture	2034	1,775,672.50	2,830,904.08	4,197,236.61	152,493.68	237,841.12	348,982.55	
61		Off-Road	Agriculture	2035	2,090,610.02	3,355,811.10	4,962,672.29	180,450.63	282,296.65	412,345.67	
62		Off-Road	Agriculture	2036	2,495,690.82	3,937,074.55	5,743,050.09	216,063.45	331,730.90	477,384.31	
63		Off-Road	Agriculture	2037	2,998,839.81	4,576,483.19	6,533,296.44	259,952.60	386,287.68	543,711.90	
64		Off-Road	Agriculture	2038	3,602,256.87	5,273,962.18	7,330,576.20	312,310.86	445,948.94	611,057.15	
65		Off-Road	Agriculture	2039	4,307,193.04	6,029,125.81	8,132,477.85	373,245.95	510,656.54	679,160.49	
66		Off-Road	Agriculture	2040	5,114,374.98	6,841,403.57	8,936,819.33	442,837.39	580,355.84	747,803.93	
67		Off-Road	Agriculture	2041	5,922,870.91	7,654,398.72	9,741,612.15	512,310.29	650,111.49	816,745.73	

Tab Contents

This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.

			Market Displaced Volumes (gal)					
			Diesel	Diesel	Diesel	Gasoline	Gasoline	Gasoline
On or Off Road	Subsector	Year	Conservative Scenario	Moderate Scenario	Ambitious Scenario	Conservative Scenario	Moderate Scenario	Ambitious Scenario
Off-Road	Agriculture	2042	6,725,068.04	8,463,119.07	10,545,046.09	581,059.76	719,531.85	885,854.60
Off-Road	Agriculture	2043	7,520,133.63	9,266,375.25	11,345,477.23	648,972.97	788,477.90	954,959.61
Off-Road	Agriculture	2044	8,307,760.23	10,063,335.81	12,141,416.69	715,995.44	856,858.61	1,023,924.83
Off-Road	Agriculture	2045	9,087,681.38	10,853,256.07	12,931,519.91	782,069.68	924,580.72	1,092,613.13
Off-Road	CHC	2030	200,855.32	251,069.15	255,128.81	-	-	-
Off-Road	CHC	2031	327,573.73	410,675.85	433,747.50	-	-	-
Off-Road	CHC	2032	447,081.88	562,459.63	613,272.56	-	-	-
Off-Road	CHC	2033	557,720.24	704,146.47	789,756.66	-	-	-
Off-Road	CHC	2034	660,675.77	837,024.23	963,046.43	-	-	-
Off-Road	CHC	2035	1,804,775.53	2,306,876.03	2,823,390.45	-	-	-
Off-Road	CHC	2036	2,921,020.24	3,740,861.64	4,637,710.64	-	-	-
Off-Road	CHC	2037	3,827,319.64	4,905,172.85	6,111,131.39	-	-	-
Off-Road	CHC	2038	4,529,332.24	5,807,091.37	7,252,959.53	-	-	-
Off-Road	CHC	2039	5,065,830.83	6,496,415.38	8,126,101.07	-	-	-
Off-Road	CHC	2040	5,474,415.03	7,021,434.10	8,791,539.06	-	-	-
Off-Road	CHC	2041	5,864,370.48	7,464,443.09	9,298,286.38	-	-	-
Off-Road	CHC	2042	6,257,481.22	7,854,372.76	9,683,789.58	-	-	-
Off-Road	CHC	2043	6,656,295.08	8,205,390.87	9,976,260.46	-	-	-
Off-Road	CHC	2044	7,059,348.92	8,526,294.39	10,196,922.49	-	-	-
Off-Road	CHC	2045	7,464,690.56	8,823,254.70	10,361,794.01	-	-	-
Off-Road	CHE	2030	777,529.32	909,814.87	1,302,815.50	2,031,386.75	2,378,601.65	3,407,109.65
Off-Road	CHE	2031	1,053,692.51	1,214,814.96	1,711,029.20	2,756,831.63	3,180,183.79	4,480,525.32
Off-Road	CHE	2032	1,312,102.24	1,547,007.99	2,172,283.45	3,437,636.32	4,054,078.74	5,693,818.62
Off-Road	CHE	2033	1,550,773.19	1,901,847.52	2,679,678.15	4,067,918.33	4,988,169.93	7,028,854.77
Off-Road	CHE	2034	1,774,123.13	2,282,412.95	3,236,743.69	4,658,530.77	5,990,374.31	8,494,962.55
Off-Road	CHE	2035	1,984,028.95	2,688,858.92	3,842,988.30	5,213,840.98	7,060,943.93	10,090,855.83
Off-Road	CHE	2036	2,250,549.88	3,108,490.33	4,410,768.62	5,916,513.23	8,166,497.35	11,587,384.50
Off-Road	CHE	2037	2,581,043.64	3,545,613.06	4,942,845.59	6,785,799.28	9,318,348.35	12,991,858.10
Off-Road	CHE	2038	2,968,282.31	3,994,340.33	5,434,821.37	7,803,388.96	10,500,905.88	14,291,883.71
Off-Road	CHE	2039	3,413,803.56	4,460,643.42	5,897,656.60	8,974,160.81	11,729,836.07	15,515,489.12

Tab Contents

This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.

	A	B	C	D	E	F	G	H	I	J	Q
5					**Market Displaced Volumes (gal)**						
6					**Diesel**	**Diesel**	**Diesel**	**Gasoline**	**Gasoline**	**Gasoline**	
7		**On or Off Road**	**Subsector**	**Year**	**Conservative Scenario**	**Moderate Scenario**	**Ambitious Scenario**	**Conservative Scenario**	**Moderate Scenario**	**Ambitious Scenario**	
98		Off-Road	CHE	2040	3,908,716.84	4,937,630.27	6,326,593.28	10,275,238.74	12,986,931.59	16,649,572.54	
99		Off-Road	CHE	2041	4,405,721.58	5,419,708.04	6,766,369.78	11,584,056.86	14,258,454.00	17,811,807.91	
100		Off-Road	CHE	2042	4,875,013.61	5,877,513.05	7,188,106.51	12,822,176.41	15,467,061.90	18,926,068.63	
101		Off-Road	CHE	2043	5,318,183.20	6,312,648.36	7,593,297.12	13,992,888.74	16,616,522.96	19,996,357.25	
102		Off-Road	CHE	2044	5,738,328.11	6,727,809.60	7,983,972.67	15,103,378.78	17,713,456.55	21,028,119.07	
103		Off-Road	CHE	2045	6,138,331.05	7,125,522.34	8,362,057.07	16,160,600.06	18,764,205.79	22,026,495.84	
104		Off-Road	C&M	2030	1,173,883.32	3,160,276.92	5,661,337.58	833,724.04	1,925,375.19	3,318,728.98	
105		Off-Road	C&M	2031	1,794,730.61	4,114,842.63	7,031,562.01	1,232,589.00	2,479,441.77	4,069,845.22	
106		Off-Road	C&M	2032	2,804,901.29	5,313,158.65	8,452,454.31	1,841,645.98	3,172,723.52	4,860,540.09	
107		Off-Road	C&M	2033	4,198,833.49	6,754,696.58	9,930,005.07	2,648,763.63	4,001,358.77	5,697,958.33	
108		Off-Road	C&M	2034	5,953,689.28	8,427,917.25	11,467,613.44	3,630,591.30	4,952,752.18	6,584,355.71	
109		Off-Road	C&M	2035	8,050,205.18	10,321,448.03	13,064,458.32	4,768,351.16	6,015,401.77	7,518,518.06	
110		Off-Road	C&M	2036	9,629,589.53	11,707,284.35	14,175,535.51	5,611,542.28	6,776,283.10	8,150,839.66	
111		Off-Road	C&M	2037	11,332,434.50	13,336,200.76	15,680,823.77	6,502,247.41	7,639,723.76	8,959,772.55	
112		Off-Road	C&M	2038	12,887,246.27	14,869,676.73	17,161,245.06	7,312,558.50	8,436,023.53	9,724,020.30	
113		Off-Road	C&M	2039	14,340,791.02	16,332,073.70	18,611,654.23	8,083,123.92	9,193,252.23	10,453,827.53	
114		Off-Road	C&M	2040	15,740,382.87	17,755,011.06	20,042,692.13	8,848,675.46	9,938,367.76	11,164,727.57	
115		Off-Road	C&M	2041	17,049,886.23	19,102,226.89	21,417,396.20	9,560,586.73	10,645,885.26	11,858,543.63	
116		Off-Road	C&M	2042	18,304,929.57	20,411,232.43	22,774,823.04	10,219,777.65	11,320,167.10	12,543,382.43	
117		Off-Road	C&M	2043	19,511,471.02	21,685,134.48	24,114,448.30	10,835,214.92	11,966,465.79	13,219,837.22	
118		Off-Road	C&M	2044	20,677,125.95	22,928,400.87	25,436,781.26	11,417,862.82	12,590,650.05	13,887,509.55	
119		Off-Road	C&M	2045	21,810,043.95	24,145,993.52	26,742,749.07	11,978,186.01	13,198,705.61	14,546,855.48	
120		Off-Road	GSE	2030	92,479.22	150,150.75	265,942.01	344,384.45	562,509.35	996,753.25	
121		Off-Road	GSE	2031	133,965.78	204,555.23	349,763.30	504,628.77	776,390.55	1,330,280.26	
122		Off-Road	GSE	2032	187,098.26	268,608.04	436,029.42	712,748.19	1,032,996.27	1,685,829.75	
123		Off-Road	GSE	2033	253,726.30	343,952.58	525,578.08	978,157.99	1,340,610.10	2,067,365.23	
124		Off-Road	GSE	2034	334,071.53	430,300.61	616,839.86	1,301,780.47	1,697,235.87	2,465,285.02	
125		Off-Road	GSE	2035	428,607.47	527,787.73	709,072.04	1,686,938.75	2,104,296.65	2,875,668.10	
126		Off-Road	GSE	2036	504,308.84	605,037.29	780,064.79	2,020,412.61	2,454,714.99	3,223,990.45	
127		Off-Road	GSE	2037	582,136.82	685,600.20	856,978.74	2,366,769.35	2,820,592.57	3,592,247.98	

Tab Contents

This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.

			Angeles Link Displaced Volumnes (gal)					
			Diesel	Diesel	Diesel	Gasoline	Gasoline	Gasoline
On or Off Road	Subsector	Year	Low Scenario	Medium Scenario	High Scenario	Low Scenario	Medium Scenario	High Scenario
On-Road	MDV	2030	1,350,901.06	3,301,400.57	5,062,378.88	1,052,247.69	2,249,347.06	3,323,659.97
On-Road	MDV	2031	1,887,169.71	4,191,136.29	6,252,951.77	1,548,454.56	3,030,948.36	4,335,986.00
On-Road	MDV	2032	2,588,147.73	5,256,395.46	7,516,419.79	2,247,398.23	4,073,799.92	5,561,335.58
On-Road	MDV	2033	3,471,889.47	6,512,566.74	8,847,909.22	3,166,202.87	5,378,690.77	6,954,851.36
On-Road	MDV	2034	4,554,192.38	7,972,706.84	10,241,433.93	4,331,589.49	6,962,946.85	8,495,891.56
On-Road	MDV	2035	5,843,667.26	9,639,964.08	11,681,650.20	5,767,871.07	8,843,034.10	10,166,534.25
On-Road	MDV	2036	7,117,159.65	11,251,110.36	13,038,919.93	7,189,692.26	10,672,994.56	11,761,638.40
On-Road	MDV	2037	8,367,788.32	12,801,133.91	14,317,611.76	8,556,154.67	12,402,091.33	13,242,574.73
On-Road	MDV	2038	9,610,475.21	14,310,538.84	15,537,473.65	9,870,001.41	14,036,980.27	14,618,424.30
On-Road	MDV	2039	10,852,257.82	15,788,681.87	16,706,906.74	11,143,735.03	15,594,530.05	15,904,972.34
On-Road	MDV	2040	12,103,285.48	17,249,045.65	17,838,171.72	12,355,410.01	17,048,105.66	17,079,344.57
On-Road	MDV	2041	13,379,068.49	18,748,056.15	19,014,394.79	13,492,970.19	18,411,423.52	18,179,745.87
On-Road	MDV	2042	14,677,906.08	20,285,238.77	20,236,383.69	14,538,131.99	19,662,580.94	19,187,578.61
On-Road	MDV	2043	16,003,679.89	21,865,111.19	21,507,558.33	15,519,827.27	20,838,248.30	20,135,350.76
On-Road	MDV	2044	17,339,702.52	23,465,842.20	22,807,620.23	16,405,145.03	21,896,104.52	20,984,609.76
On-Road	MDV	2045	18,701,201.21	25,106,332.95	24,152,846.00	17,211,922.41	22,858,601.06	21,755,086.21
On-Road	HDV	2030	10,211,002.49	35,511,667.48	58,994,483.10	-	-	-
On-Road	HDV	2031	13,636,576.33	42,983,609.61	70,166,437.95	-	-	-
On-Road	HDV	2032	19,307,134.86	53,099,398.96	82,918,284.53	39.58	70.59	91.75
On-Road	HDV	2033	27,385,026.44	66,034,402.98	97,331,594.57	153.08	245.20	290.55
On-Road	HDV	2034	38,049,948.12	81,997,726.66	113,540,306.97	306.37	456.08	501.37
On-Road	HDV	2035	51,476,317.38	101,177,172.10	131,640,808.65	538.44	749.88	761.69
On-Road	HDV	2036	64,098,273.38	119,194,552.80	148,602,016.03	799.88	1,080.61	1,054.39
On-Road	HDV	2037	75,917,500.00	136,085,085.91	164,549,625.69	1,075.31	1,429.32	1,363.39
On-Road	HDV	2038	87,032,786.70	151,997,435.16	179,633,760.20	1,351.88	1,779.60	1,673.98
On-Road	HDV	2039	97,535,114.77	167,067,523.59	193,985,547.43	1,628.68	2,130.29	1,985.11
On-Road	HDV	2040	107,520,687.43	181,440,815.74	207,747,608.30	1,880.47	2,449.12	2,267.71
On-Road	HDV	2041	118,942,441.15	196,433,543.65	221,039,894.94	2,135.60	2,772.36	2,554.47
On-Road	HDV	2042	131,932,585.92	212,146,273.31	233,884,976.76	2,380.99	3,083.25	2,830.27
On-Road	HDV	2043	146,464,559.48	228,608,575.11	246,360,471.26	2,627.35	3,395.49	3,107.44

Tab Contents

This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.

				Angeles Link Displaced Volumnes (gal)					
				Diesel	Diesel	Diesel	Gasoline	Gasoline	Gasoline
7	On or Off Road	Subsector	Year	Low Scenario	Medium Scenario	High Scenario	Low Scenario	Medium Scenario	High Scenario
38	On-Road	HDV	2044	162,476,887.04	245,807,361.83	258,507,946.63	2,864.31	3,695.82	3,374.02
39	On-Road	HDV	2045	179,903,180.55	263,716,284.84	270,351,406.83	3,077.59	3,965.97	3,613.60
40	On-Road	Bus	2030	736,822.50	1,764,095.33	2,659,851.62	11,183,556.80	26,799,082.73	40,411,464.72
41	On-Road	Bus	2031	956,696.64	2,058,489.01	3,008,075.17	14,597,087.70	31,434,796.50	45,943,750.64
42	On-Road	Bus	2032	1,208,181.94	2,369,717.88	3,319,029.49	18,443,490.99	36,232,818.29	50,779,950.12
43	On-Road	Bus	2033	1,485,071.84	2,691,210.39	3,589,601.99	22,680,383.65	41,178,618.81	54,980,021.19
44	On-Road	Bus	2034	1,792,254.86	3,031,767.97	3,833,276.45	27,267,645.92	46,256,199.85	58,602,683.42
45	On-Road	Bus	2035	2,129,926.25	3,392,720.41	4,053,931.97	32,168,460.00	51,450,375.87	61,702,131.93
46	On-Road	Bus	2036	2,431,238.72	3,711,870.60	4,242,703.79	39,451,964.15	59,752,055.51	67,671,542.60
47	On-Road	Bus	2037	2,697,776.02	3,992,807.89	4,406,289.03	46,414,014.30	67,700,013.75	73,406,167.46
48	On-Road	Bus	2038	2,929,950.12	4,235,608.97	4,544,187.50	52,922,075.57	75,155,505.98	78,828,401.89
49	On-Road	Bus	2039	3,131,324.73	4,444,300.04	4,659,242.09	59,003,101.32	82,148,639.80	83,959,011.13
50	On-Road	Bus	2040	3,303,392.82	4,620,280.67	4,751,953.40	64,694,709.73	88,720,117.55	88,823,631.89
51	On-Road	Bus	2041	3,440,947.86	4,756,470.49	4,815,314.51	70,034,056.74	94,910,249.06	93,447,830.69
52	On-Road	Bus	2042	3,576,093.71	4,893,448.78	4,885,161.22	75,047,650.47	100,746,286.96	97,846,247.00
53	On-Road	Bus	2043	3,716,915.52	5,040,951.51	4,969,362.70	79,765,774.87	106,260,891.48	102,039,254.29
54	On-Road	Bus	2044	3,840,342.27	5,169,210.80	5,040,715.61	84,206,968.05	111,472,258.44	106,035,027.10
55	On-Road	Bus	2045	3,947,228.03	5,279,186.93	5,099,886.50	88,407,977.33	116,422,339.33	109,863,835.19
56	Off-Road	Agriculture	2030	172,821.58	327,077.65	406,775.32	14,393.10	27,082.82	33,595.67
57	Off-Road	Agriculture	2031	242,856.57	449,767.09	552,265.97	20,417.47	37,461.51	45,803.50
58	Off-Road	Agriculture	2032	317,148.37	583,309.35	710,768.56	26,882.21	48,777.63	59,064.54
59	Off-Road	Agriculture	2033	395,230.30	727,218.90	881,686.71	33,738.69	60,981.46	73,318.42
60	Off-Road	Agriculture	2034	476,722.79	881,068.40	1,064,476.01	40,940.66	74,023.81	88,506.70
61	Off-Road	Agriculture	2035	561,275.48	1,044,436.35	1,258,600.86	48,446.39	87,859.80	104,576.44
62	Off-Road	Agriculture	2036	670,029.35	1,225,344.23	1,456,515.23	58,007.53	103,245.32	121,071.12
63	Off-Road	Agriculture	2037	805,112.02	1,424,348.77	1,656,932.40	69,790.65	120,225.15	137,892.70
64	Off-Road	Agriculture	2038	967,114.12	1,641,426.67	1,859,133.34	83,847.50	138,793.65	154,972.36
65	Off-Road	Agriculture	2039	1,156,371.50	1,876,457.87	2,062,506.45	100,207.02	158,932.74	172,244.29
66	Off-Road	Agriculture	2040	1,373,079.27	2,129,264.84	2,266,498.34	118,890.55	180,625.40	189,653.20
67	Off-Road	Agriculture	2041	1,590,139.81	2,382,295.08	2,470,604.69	137,542.25	202,335.60	207,137.77

Tab Contents

This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.

			Angeles Link Displaced Volumnes (gal)					
			Diesel	Diesel	Diesel	Gasoline	Gasoline	Gasoline
On or Off Road	**Subsector**	**Year**	Low Scenario	Medium Scenario	High Scenario	Low Scenario	Medium Scenario	High Scenario
Off-Road	Agriculture	2042	1,805,509.29	2,633,994.86	2,674,366.41	155,999.73	223,941.45	224,664.72
Off-Road	Agriculture	2043	2,018,964.13	2,883,994.02	2,877,366.58	174,232.69	245,399.68	242,190.68
Off-Road	Agriculture	2044	2,230,421.78	3,132,033.78	3,079,227.60	192,226.52	266,681.96	259,681.20
Off-Road	Agriculture	2045	2,439,810.73	3,377,882.38	3,279,608.47	209,965.77	287,759.26	277,101.48
Off-Road	CHC	2030	53,924.53	78,140.79	64,704.12	-	-	-
Off-Road	CHC	2031	87,945.19	127,815.53	110,004.24	-	-	-
Off-Road	CHC	2032	120,030.08	175,055.53	155,534.22	-	-	-
Off-Road	CHC	2033	149,733.66	219,153.03	200,292.98	-	-	-
Off-Road	CHC	2034	177,374.60	260,508.86	244,241.61	-	-	-
Off-Road	CHC	2035	484,536.21	717,974.02	716,050.03	-	-	-
Off-Road	CHC	2036	784,219.45	1,164,276.46	1,176,186.19	-	-	-
Off-Road	CHC	2037	1,027,537.73	1,526,647.56	1,549,865.63	-	-	-
Off-Road	CHC	2038	1,216,010.21	1,807,353.61	1,839,448.70	-	-	-
Off-Road	CHC	2039	1,360,046.41	2,021,893.42	2,060,889.22	-	-	-
Off-Road	CHC	2040	1,469,740.84	2,185,296.13	2,229,653.30	-	-	-
Off-Road	CHC	2041	1,574,433.94	2,323,174.78	2,358,171.28	-	-	-
Off-Road	CHC	2042	1,679,974.15	2,444,533.43	2,455,940.10	-	-	-
Off-Road	CHC	2043	1,787,045.50	2,553,781.56	2,530,114.68	-	-	-
Off-Road	CHC	2044	1,895,255.18	2,653,657.06	2,586,077.56	-	-	-
Off-Road	CHC	2045	2,004,079.07	2,746,080.66	2,627,891.21	-	-	-
Off-Road	CHE	2030	208,746.80	283,163.65	330,411.64	545,375.54	740,297.34	864,089.12
Off-Road	CHE	2031	282,889.57	378,089.49	433,940.16	740,139.00	989,775.48	1,136,321.86
Off-Road	CHE	2032	352,265.99	481,478.65	550,920.49	922,917.70	1,261,759.70	1,444,029.47
Off-Road	CHE	2033	416,343.06	591,916.12	679,602.65	1,092,132.35	1,552,478.92	1,782,612.70
Off-Road	CHE	2034	476,306.82	710,360.32	820,882.01	1,250,696.72	1,864,397.16	2,154,437.48
Off-Road	CHE	2035	532,661.18	836,859.38	974,633.85	1,399,783.36	2,197,592.86	2,559,177.62
Off-Road	CHE	2036	604,215.26	967,462.17	1,118,630.62	1,588,432.94	2,541,676.65	2,938,717.54
Off-Road	CHE	2037	692,944.40	1,103,508.83	1,253,572.54	1,821,814.08	2,900,169.72	3,294,911.05
Off-Road	CHE	2038	796,908.11	1,243,167.19	1,378,344.26	2,095,010.96	3,268,219.66	3,624,615.14
Off-Road	CHE	2039	916,519.21	1,388,295.71	1,495,725.54	2,409,333.35	3,650,702.27	3,934,938.04

	A	B	C	D	K	L	M	N	O	P	Q
1											
2					**Tab Contents**						
3					This tab calculates the volume of gasoline and diesel fuels displaced specifically by Angeles Link based on the percentages provided by the Demand Study as represented on the tab titled, "AL_Volumes". It also demonstrates the volume of gasoline and diesel displaced by market adoption of FCEVs, as provided by the Demand Study. Emission reductions were calculated by multiplying the displaced fuel volume by the emissions factor.						
4											
5					**Angeles Link Displaced Volumnes (gal)**						
6					**Diesel**	**Diesel**	**Diesel**	**Gasoline**	**Gasoline**	**Gasoline**	
7		**On or Off Road**	**Subsector**	**Year**	**Low Scenario**	**Medium Scenario**	**High Scenario**	**Low Scenario**	**Medium Scenario**	**High Scenario**	
98		Off-Road	CHE	2040	1,049,390.80	1,536,749.35	1,604,509.69	2,758,639.60	4,041,950.83	4,222,556.94	
99		Off-Road	CHE	2041	1,182,823.90	1,686,787.46	1,716,042.96	3,110,023.89	4,437,689.50	4,517,315.56	
100		Off-Road	CHE	2042	1,308,816.85	1,829,271.11	1,823,001.10	3,442,427.42	4,813,847.15	4,799,907.16	
101		Off-Road	CHE	2043	1,427,796.58	1,964,699.21	1,925,762.92	3,756,733.83	5,171,596.40	5,071,346.84	
102		Off-Road	CHE	2044	1,540,594.78	2,093,910.74	2,024,843.53	4,054,872.09	5,512,997.42	5,333,015.61	
103		Off-Road	CHE	2045	1,647,985.37	2,217,691.74	2,120,730.85	4,338,709.04	5,840,024.38	5,586,217.47	
104		Off-Road	C&M	2030	315,157.74	983,579.83	1,435,791.83	223,833.65	599,238.69	841,674.59	
105		Off-Road	C&M	2031	481,839.41	1,280,671.38	1,783,299.29	330,918.72	771,682.03	1,032,167.83	
106		Off-Road	C&M	2032	753,044.48	1,653,625.87	2,143,656.81	494,434.99	987,453.61	1,232,698.75	
107		Off-Road	C&M	2033	1,127,279.73	2,102,278.84	2,518,383.68	711,125.49	1,245,351.55	1,445,079.35	
108		Off-Road	C&M	2034	1,598,413.76	2,623,038.93	2,908,341.98	974,721.19	1,541,455.78	1,669,881.72	
109		Off-Road	C&M	2035	2,161,274.82	3,212,366.61	3,313,323.45	1,280,180.70	1,872,186.51	1,906,797.94	
110		Off-Road	C&M	2036	2,585,299.25	3,643,683.45	3,595,107.67	1,506,556.01	2,108,997.25	2,067,163.26	
111		Off-Road	C&M	2037	3,042,469.70	4,150,654.63	3,976,869.14	1,745,687.63	2,377,727.76	2,272,319.59	
112		Off-Road	C&M	2038	3,459,897.02	4,627,921.67	4,352,324.02	1,963,235.50	2,625,561.86	2,466,143.16	
113		Off-Road	C&M	2039	3,850,136.72	5,083,066.64	4,720,167.42	2,170,112.66	2,861,235.79	2,651,232.15	
114		Off-Road	C&M	2040	4,225,891.44	5,525,930.52	5,083,098.00	2,375,643.73	3,093,139.71	2,831,526.02	
115		Off-Road	C&M	2041	4,577,459.70	5,945,227.42	5,431,741.56	2,566,773.75	3,313,341.91	3,007,487.17	
116		Off-Road	C&M	2042	4,914,406.84	6,352,632.05	5,776,003.37	2,743,749.71	3,523,200.11	3,181,171.55	
117		Off-Road	C&M	2043	5,238,332.45	6,749,111.34	6,115,750.47	2,908,978.92	3,724,349.05	3,352,729.65	
118		Off-Road	C&M	2044	5,551,281.08	7,136,055.83	6,451,112.01	3,065,405.03	3,918,615.26	3,522,060.38	
119		Off-Road	C&M	2045	5,855,440.67	7,515,009.82	6,782,323.12	3,215,837.51	4,107,861.71	3,689,279.44	
120		Off-Road	GSE	2030	24,828.31	46,731.74	67,446.49	92,458.44	175,071.00	252,790.12	
121		Off-Road	GSE	2031	35,966.40	63,664.17	88,704.71	135,479.96	241,637.71	337,377.08	
122		Off-Road	GSE	2032	50,231.11	83,599.46	110,582.96	191,354.71	321,501.66	427,549.24	
123		Off-Road	GSE	2033	68,119.04	107,049.11	133,293.71	262,610.48	417,240.98	524,311.80	
124		Off-Road	GSE	2034	89,689.69	133,923.39	156,438.94	349,494.86	528,234.39	625,229.65	
125		Off-Road	GSE	2035	115,070.18	164,264.52	179,830.27	452,900.04	654,924.80	729,308.35	
126		Off-Road	GSE	2036	135,394.06	188,307.06	197,834.99	542,429.27	763,986.26	817,647.61	
127		Off-Road	GSE	2037	156,288.89	213,380.83	217,341.41	635,417.22	877,859.13	911,042.71	

	A	C	D	M	N	O	P	Q	R
1									
2	**Tab Contents**								
3	This tab multiplies the volume of diesel and gasoline displaced by FCEVs for the full market in the geographic region of this study (as projected by the Demand Study) by the emissions factors (from the "Emissions_Factors" tab) as developed from the EMFAC model data or EPA emissions factors for offroad CH4 and N2O calculations to estimate the CO2, CH4, and N2O associated emissions reductions.								
5	$\textbf{Emission Reduction}\left(\frac{\textbf{MT}}{\textbf{year}}\right) = \textbf{Emission Factor}\left(\frac{\textbf{ton}}{\textbf{gal}}\right) * \textbf{Fuel Displaced by FCEV}\left(\frac{\textbf{gal}}{\textbf{year}}\right)$								
6	**Emission Reduction (MT/yr)**		Shown in columns M through R						
7	**Emission Factor (MT/gal)**		Shown on Tab "6. Emissions_Factors"						
8	**Fuel Displaced by FCEV (gal/yr)**		Shown on Tab "12. Angeles_Link_Fuel_Disp"						
9									
10	**Example Calculation: MDV Year 2030, Ambitious Diesel Displacement**								
11–12	$\textbf{202,713.44}\left(\frac{\textbf{MT}}{\textbf{year}}\right) = \textbf{0.010155477}\left(\frac{\textbf{MT}}{\textbf{gal}}\right) * \textbf{19,960,996.51}\left(\frac{\textbf{gal}}{\textbf{year}}\right)$								
13	**CO2 Emission Reduction (MT/yr)**		202,713.44	Calculated, shown in cell O23					
14	**CO2 Emission Factor (MT/gal)**		0.010155477	Cell E74, "6. Emissions_Factors"					
15	**Fuel Displaced by FCEV (gal/yr)**		19,960,996.51	Cell G8, "12. Angeles_Link_Fuel_Disp"					
16									
17		**Subsector**	**Year**	**Conservative CO2 Reductions from Diesel (MT/yr)**	**Moderate CO2 Reductions from Diesel (MT/yr)**	**Ambitious CO2 Reductions from Diesel (MT/yr)**	**Conservative CO2 Reductions from Gasoline (MT/yr)**	**Moderate CO2 Reductions from Gasoline (MT/yr)**	**Ambitious CO2 Reductions from Gasoline (MT/yr)**
23	On-Road	MDV	2030	51099.99122	107724.3982	202713.4415	33718.57663	62176.50345	112745.303
24	On-Road	MDV	2031	71385.20993	136756.3934	250387.6939	49619.19553	83781.54444	147085.4598
25	On-Road	MDV	2032	97900.82362	171515.7027	300980.8943	72016.38007	112608.0714	188651.8085
26	On-Road	MDV	2033	131329.7673	212504.4564	354297.8845	101458.8633	148677.8944	235922.6966
27	On-Road	MDV	2034	172269.6041	260148.6943	410098.9606	138802.9016	192469.9376	288197.913
28	On-Road	MDV	2035	221046.0522	314551.1453	467769.7127	184827.5888	244439.3527	344869.5095
29	On-Road	MDV	2036	269217.9368	367122.7012	522119.0264	230388.9021	295023.1621	398978.6848
30	On-Road	MDV	2037	316524.9646	417699.8276	573321.8359	274176.2804	342818.8949	449215.0559
31	On-Road	MDV	2038	363531.5823	466951.5722	622168.911	316277.6247	388010.5326	495886.67
32	On-Road	MDV	2039	410503.9937	515183.2439	668996.6598	357093.5705	431064.3595	539528.9952
33	On-Road	MDV	2040	457826.1142	562834.7805	714296.0383	395920.8887	471244.1301	579366.0884
34	On-Road	MDV	2041	506084.6451	611747.3558	761395.6793	432373.2474	508928.9939	616693.9376
35	On-Road	MDV	2042	555215.2525	661905.484	810327.9265	465864.7616	543513.5164	650881.6731
36	On-Road	MDV	2043	605364.7655	713456.5763	861229.7242	497322.5334	576011.3407	683032.0311

	A	C	D	M	N	O	P	Q	R
17		Subsector	Year	Conservative CO2 Reductions from Diesel (MT/yr)	Moderate CO2 Reductions from Diesel (MT/yr)	Ambitious CO2 Reductions from Diesel (MT/yr)	Conservative CO2 Reductions from Gasoline (MT/yr)	Moderate CO2 Reductions from Gasoline (MT/yr)	Ambitious CO2 Reductions from Gasoline (MT/yr)
37	On-Road	MDV	2044	655901.9562	765688.2829	913288.2581	525691.9515	605252.6265	711840.6229
38	On-Road	MDV	2045	707402.82	819217.3459	967155.294	551544.5957	631857.9782	737976.7503
44	On-Road	HDV	2030	386247.4863	1158742.459	2362323.125	0	0	0
45	On-Road	HDV	2031	515825.2906	1402551.247	2809683.047	0	0	0
46	On-Road	HDV	2032	730323.2284	1732628.527	3320306.761	1.268302329	1.951234352	3.112218792
47	On-Road	HDV	2033	1035882.386	2154696.524	3897460.654	4.905411654	6.777930746	9.856001272
48	On-Road	HDV	2034	1439300.091	2675578.314	4546508.058	9.817429382	12.60697757	17.0075476
49	On-Road	HDV	2035	1947173.963	3301401.863	5271308.607	17.25405702	20.72809419	25.83800038
50	On-Road	HDV	2036	2424619.618	3889307.346	5950488.258	25.63160246	29.87014483	35.76703353
51	On-Road	HDV	2037	2871700.752	4440443.895	6589080.294	34.45758596	39.50916126	46.24912746
52	On-Road	HDV	2038	3292154.234	4959662.394	7193096.092	43.32013486	49.19172141	56.78488888
53	On-Road	HDV	2039	3689421.575	5451398	7767786.42	52.18988089	58.88564418	67.33913396
54	On-Road	HDV	2040	4067141.818	5920397.207	8318862.265	60.25826031	67.69865658	76.9254074
55	On-Road	HDV	2041	4499187.904	6409608.546	8851126.885	68.43389846	76.63367188	86.65286317
56	On-Road	HDV	2042	4990560.888	6922313.477	9365484.029	76.29717813	85.22723099	96.00843074
57	On-Road	HDV	2043	5540256.01	7459476.878	9865041.744	84.19176868	93.85833454	105.4106857
58	On-Road	HDV	2044	6145947.887	8020671.714	10351464.55	91.78502879	102.1598466	114.4536414
59	On-Road	HDV	2045	6805125.286	8605038.232	10825713.64	98.61938751	109.6273418	122.5805242
65	On-Road	Bus	2030	27871.48854	57562.26922	106508.7558	358369.6328	740780.8634	1370839.036
66	On-Road	Bus	2031	36188.57934	67168.30794	120452.7128	467753.9581	868921.3706	1558505.421
67	On-Road	Bus	2032	45701.41244	77323.6776	132904.2939	591009.391	1001548.4	1722559.139
68	On-Road	Bus	2033	56175.2154	87813.94881	143738.8609	726777.7957	1138260.332	1865034.088
69	On-Road	Bus	2034	67794.90399	98926.31122	153496.3462	873773.5612	1278614.944	1987922.156
70	On-Road	Bus	2035	80567.86383	110704.1565	162332.0816	1030816.886	1422192.478	2093061.75
71	On-Road	Bus	2036	91965.48983	121117.998	169891.0942	1264211.928	1651667.698	2295556.295
72	On-Road	Bus	2037	102047.6889	130284.956	176441.5572	1487306.19	1871365.343	2490086.428
73	On-Road	Bus	2038	110830.0451	138207.533	181963.4423	1695852.681	2077450.231	2674019.643
74	On-Road	Bus	2039	118447.3617	145017.1034	186570.5871	1890715.103	2270754.598	2848060.338
75	On-Road	Bus	2040	124956.1122	150759.3353	190283.0369	2073098.906	2452403.537	3013078.164
76	On-Road	Bus	2041	130159.3512	155203.1965	192820.2135	2244194.726	2623511.296	3169940.388
77	On-Road	Bus	2042	135271.4589	159672.7858	195617.0934	2404852	2784831.19	3319143.611
78	On-Road	Bus	2043	140598.269	164485.7862	198988.7835	2556041.155	2937266.015	3461378.942
79	On-Road	Bus	2044	145267.083	168670.8751	201845.9764	2698356.234	3081318.741	3596923.679
80	On-Road	Bus	2045	149310.2079	172259.3862	204215.3635	2832974.78	3218148.991	3726804.633
86	Off-Road	Agriculture	2030	6553.036336	10698.28223	16327.88094	547.7400011	889.0631328	1353.424891
87	Off-Road	Agriculture	2031	9208.618246	14711.29329	22167.84679	777.0019632	1229.770638	1845.22565
88	Off-Road	Agriculture	2032	12025.60928	19079.28594	28530.10947	1023.022345	1601.251346	2379.455887

	A	C	D	M	N	O	P	Q	R
17		Subsector	Year	Conservative CO2 Reductions from Diesel (MT/yr)	Moderate CO2 Reductions from Diesel (MT/yr)	Ambitious CO2 Reductions from Diesel (MT/yr)	Conservative CO2 Reductions from Gasoline (MT/yr)	Moderate CO2 Reductions from Gasoline (MT/yr)	Ambitious CO2 Reductions from Gasoline (MT/yr)
89	Off-Road	Agriculture	2033	14986.31432	23786.37909	35390.73005	1283.951127	2001.873329	2953.683184
90	Off-Road	Agriculture	2034	18076.34086	28818.59525	42727.85643	1558.027481	2430.022026	3565.553702
91	Off-Road	Agriculture	2035	21282.40387	34162.14717	50519.98944	1843.663562	2884.224001	4212.934545
92	Off-Road	Agriculture	2036	25406.12531	40079.4074	58464.23317	2207.519685	3389.293594	4877.434135
93	Off-Road	Agriculture	2037	30528.18048	46588.58549	66508.9387	2655.934973	3946.700132	5555.10289
94	Off-Road	Agriculture	2038	36670.96442	53688.91965	74625.24429	3190.879157	4556.259051	6243.16909
95	Off-Road	Agriculture	2039	43847.21262	61376.48316	82788.60075	3813.452743	5217.376381	6938.980757
96	Off-Road	Agriculture	2040	52064.32235	69645.46835	90976.79475	4524.468333	5929.493887	7640.310589
97	Off-Road	Agriculture	2041	60294.80857	77921.75668	99169.58323	5234.272718	6642.187133	8344.688761
98	Off-Road	Agriculture	2042	68461.17307	86154.52744	107348.5384	5936.685871	7351.454764	9050.773842
99	Off-Road	Agriculture	2043	76554.93842	94331.67303	115496.9251	6630.554903	8055.876383	9756.819519
100	Off-Road	Agriculture	2044	84572.97486	102444.7292	123599.5865	7315.32331	8754.521941	10461.43705
101	Off-Road	Agriculture	2045	92512.56995	110486.1151	131642.8349	7990.403672	9446.438505	11163.22512
107	Off-Road	CHC	2030	1884.354386	2355.442982	2393.529356	0	0	0
108	Off-Road	CHC	2031	3054.890971	3829.885735	4045.047559	0	0	0
109	Off-Road	CHC	2032	4169.249174	5245.201092	5719.055605	0	0	0
110	Off-Road	CHC	2033	5200.814004	6566.257686	7364.583822	0	0	0
111	Off-Road	CHC	2034	6160.660477	7805.072213	8980.202319	0	0	0
112	Off-Road	CHC	2035	16828.48851	21510.2854	26326.4837	0	0	0
113	Off-Road	CHC	2036	27235.72343	34879.96127	43242.22148	0	0	0
114	Off-Road	CHC	2037	35684.64815	45734.19103	56978.14507	0	0	0
115	Off-Road	CHC	2038	42228.20534	54141.10373	67621.32876	0	0	0
116	Off-Road	CHC	2039	47228.07066	60565.2211	75758.56526	0	0	0
117	Off-Road	CHC	2040	51034.71894	65456.65869	81958.29557	0	0	0
118	Off-Road	CHC	2041	54667.21424	69582.96904	86677.91626	0	0	0
119	Off-Road	CHC	2042	58328.578	73213.86648	90266.61945	0	0	0
120	Off-Road	CHC	2043	62042.49718	76481.42606	92987.48092	0	0	0
121	Off-Road	CHC	2044	65795.35659	79467.75069	95038.53101	0	0	0
122	Off-Road	CHC	2045	69568.92047	82230.37508	96569.15019	0	0	0
128	Off-Road	CHE	2030	7915.246233	9261.912706	13262.65796	20732.33317	24276.00843	34772.96108
129	Off-Road	CHE	2031	10726.58669	12366.81271	17418.27229	28136.2236	32456.95574	45728.24147
130	Off-Road	CHE	2032	13357.19694	15748.53685	22113.83923	35084.51623	41375.92766	58111.1128
131	Off-Road	CHE	2033	15786.86654	19360.80224	27279.11572	41517.17449	50909.26228	71736.4918
132	Off-Road	CHE	2034	18060.56834	23234.95715	32950.04132	47544.96502	61137.76021	86699.58779
133	Off-Road	CHE	2035	20197.40888	27372.57592	39121.60967	53212.461	72063.99377	102987.2746

	A	C	D	M	N	O	P	Q	R
17		Subsector	Year	Conservative CO2 Reductions from Diesel (MT/yr)	Moderate CO2 Reductions from Diesel (MT/yr)	Ambitious CO2 Reductions from Diesel (MT/yr)	Conservative CO2 Reductions from Gasoline (MT/yr)	Moderate CO2 Reductions from Gasoline (MT/yr)	Ambitious CO2 Reductions from Gasoline (MT/yr)
134	Off-Road	CHE	2036	22910.59123	31644.42245	44901.61168	60383.93399	83347.272	118260.8463
135	Off-Road	CHE	2037	26275.01674	36094.33065	50318.15372	69255.86747	95103.06325	132594.9037
136	Off-Road	CHE	2038	30217.10527	40662.37289	55326.46566	79641.38769	107172.2454	145862.9651
137	Off-Road	CHE	2039	34752.51026	45409.33704	60038.12693	91590.28519	119714.7069	158351.082
138	Off-Road	CHE	2040	39790.72603	50265.06173	64404.70116	104869.0866	132544.6238	169925.5373
139	Off-Road	CHE	2041	44850.23281	55172.61203	68881.62462	118226.8843	145521.7815	181787.3115
140	Off-Road	CHE	2042	49627.62434	59833.06575	73174.90328	130863.1324	157856.8337	193159.4565
141	Off-Road	CHE	2043	54139.08949	64262.74193	77299.74248	142811.4225	169588.2334	204082.8221
142	Off-Road	CHE	2044	58416.16338	68489.08207	81276.81847	154145.0838	180783.5375	214612.9833
143	Off-Road	CHE	2045	62488.19223	72537.79666	85125.71657	164935.0842	191507.4843	224802.4166
149	Off-Road	C&M	2030	11961.7419	32202.87419	57688.40712	3225.260735	7448.312296	12838.50024
150	Off-Road	C&M	2031	18288.1074	41929.79351	71650.84286	4760.396883	9575.882047	15718.19843
151	Off-Road	C&M	2032	28581.63536	54140.50168	86129.57884	7098.956353	12229.83463	18735.82777
152	Off-Road	C&M	2033	42785.65067	68829.61404	101185.6577	10190.84277	15394.812	21922.30248
153	Off-Road	C&M	2034	60667.43741	85879.54769	116853.7168	13939.96998	19016.52127	25281.20445
154	Off-Road	C&M	2035	82030.70279	105174.417	133125.3892	18271.78394	23050.34123	28810.11337
155	Off-Road	C&M	2036	98124.45409	119295.9348	144447.1417	21460.02567	25914.30342	31170.9722
156	Off-Road	C&M	2037	115476.2556	135894.4124	159785.8618	24815.01355	29156.04969	34193.8507
157	Off-Road	C&M	2038	131319.6149	151520.3621	174871.1901	27850.24266	32129.01509	37034.41486
158	Off-Road	C&M	2039	146131.0742	166422.0244	189650.6979	30724.36764	34944.02217	39735.53339
159	Off-Road	C&M	2040	160392.7592	180921.5976	204232.8145	33571.53998	37705.79138	42358.55412
160	Off-Road	C&M	2041	173736.4538	194649.578	218240.8971	36267.86724	40384.92244	44985.11425
161	Off-Road	C&M	2042	186525.2068	207988.1998	232072.9266	38767.11051	42941.2639	47581.33782
162	Off-Road	C&M	2043	198819.7307	220969.1208	245723.5599	41121.7319	45415.04728	50171.83379
163	Off-Road	C&M	2044	210697.6255	233637.8678	259197.9864	43372.0453	47827.01043	52753.27815
164	Off-Road	C&M	2045	222241.9344	246045.0021	272505.6537	45564.16694	50206.93664	55335.20275
170	Off-Road	GSE	2030	942.3536116	1530.020474	2709.921243	2758.554045	4505.756445	7984.093732
171	Off-Road	GSE	2031	1365.097257	2084.396422	3564.051453	4040.828353	6216.968067	10652.25475
172	Off-Road	GSE	2032	1906.511659	2737.087801	4443.094203	5713.114371	8280.099378	13512.96064
173	Off-Road	GSE	2033	2585.444473	3504.840875	5355.585667	7843.483187	10749.8511	16577.4287
174	Off-Road	GSE	2034	3404.153925	4384.718222	6285.533677	10438.27131	13609.21359	19767.78304
175	Off-Road	GSE	2035	4367.465303	5378.101798	7225.369955	13526.35107	16872.8446	23057.91859
176	Off-Road	GSE	2036	5138.854368	6165.266705	7948.778678	16199.06097	19681.16693	25848.98634
177	Off-Road	GSE	2037	5931.91336	6986.19432	8732.523791	18976.62586	22615.35543	28802.44586
178	Off-Road	GSE	2038	6641.320826	7723.226142	9443.118214	21572.0897	25357.91045	31564.97013
179	Off-Road	GSE	2039	7277.717382	8386.716151	10088.76401	23988.44964	27911.81393	34139.07851
180	Off-Road	GSE	2040	7851.264818	8986.38179	10676.68833	26234.88472	30286.23462	36532.6999

	A	C	D	M	N	O	P	Q	R
17		**Subsector**	**Year**	**Conservative CO2 Reductions from Diesel (MT/yr)**	**Moderate CO2 Reductions from Diesel (MT/yr)**	**Ambitious CO2 Reductions from Diesel (MT/yr)**	**Conservative CO2 Reductions from Gasoline (MT/yr)**	**Moderate CO2 Reductions from Gasoline (MT/yr)**	**Ambitious CO2 Reductions from Gasoline (MT/yr)**
181	Off-Road	GSE	2041	8273.900655	9424.188419	11096.28434	27882.4286	32008.83582	38225.14296
182	Off-Road	GSE	2042	8651.553657	9815.918462	11473.14541	29388.90674	33582.94553	39769.39918
183	Off-Road	GSE	2043	8992.856581	10170.24698	11814.87988	30780.23955	35035.87622	41192.77703
184	Off-Road	GSE	2044	9301.235708	10490.44809	12123.91807	32063.32826	36374.72854	42501.96081
185	Off-Road	GSE	2045	9581.094431	10781.00964	12404.35553	33244.08981	37605.626	43702.80431

	A	C	D	S	T	U	V	W	X
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17		**Subsector**	**Year**	**Conservative CH4 Reductions from Diesel (MT/yr)**	**Moderate CH4 Reductions from Diesel (MT/yr)**	**Ambitious CH4 Reductions from Diesel (MT/yr)**	**Conservative CH4 Reductions from Gasoline (MT/yr)**	**Moderate CH4 Reductions from Gasoline (MT/yr)**	**Ambitious CH4 Reductions from Gasoline (MT/yr)**
23	On-Road	MDV	2030	0.183459171	0.386752098	0.72778173	0.737837327	1.360559954	2.467117574
24	On-Road	MDV	2031	0.245584926	0.470479933	0.861403131	1.048432273	1.770268021	3.107852542
25	On-Road	MDV	2032	0.324694662	0.568843356	0.998223366	1.473887533	2.304637256	3.860948693
26	On-Road	MDV	2033	0.4202461	0.679999446	1.133728531	2.055116152	3.011568751	4.778769725
27	On-Road	MDV	2034	0.536671154	0.810440708	1.277580473	2.790115766	3.868891797	5.793146479
28	On-Road	MDV	2035	0.669310729	0.952437079	1.416371314	3.682876399	4.870701007	6.871873325
29	On-Road	MDV	2036	0.793258132	1.08173724	1.53843822	4.555132511	5.833048314	7.888404178
30	On-Road	MDV	2037	0.904960435	1.194224343	1.639155316	5.378644076	6.725238286	8.81246144
31	On-Road	MDV	2038	1.002784154	1.288063156	1.716222621	6.158763524	7.55559334	9.656227619
32	On-Road	MDV	2039	1.099635797	1.380044886	1.792071908	6.882090565	8.307693576	10.3980797
33	On-Road	MDV	2040	1.192189441	1.465634357	1.860042859	7.531707684	8.964601608	11.02143419
34	On-Road	MDV	2041	1.285582936	1.553992932	1.934137505	8.159360987	9.604052525	11.6376961
35	On-Road	MDV	2042	1.375707404	1.640063509	2.007823314	8.703992743	10.15474466	12.16075957
36	On-Road	MDV	2043	1.469113963	1.731433804	2.090053279	9.206930036	10.6636956	12.64496921
37	On-Road	MDV	2044	1.550596955	1.810139319	2.159075726	9.607374175	11.06139905	13.00936641
38	On-Road	MDV	2045	1.633491473	1.891686761	2.233296053	9.916658149	11.36067621	13.26866986
44	On-Road	HDV	2030	0.689364485	2.068093454	4.216212976	0	0	0
45	On-Road	HDV	2031	0.929471126	2.52727214	5.062798028	0	0	0
46	On-Road	HDV	2032	1.327556276	3.149512142	6.035538659	5.30137E-05	8.15596E-05	0.000130088
47	On-Road	HDV	2033	1.896857072	3.945574707	7.136838995	0.000206052	0.000284707	0.000414001
48	On-Road	HDV	2034	2.652349858	4.93056994	8.378329218	0.000411503	0.000528429	0.000712881
49	On-Road	HDV	2035	3.607476183	6.116417341	9.766009929	0.000725741	0.000871867	0.0010868
50	On-Road	HDV	2036	4.525640642	7.259533521	11.10680261	0.00109211	0.001272706	0.00152396
51	On-Road	HDV	2037	5.39590916	8.343568484	12.38084389	0.001482661	0.001700023	0.001990034
52	On-Road	HDV	2038	6.222334659	9.374007723	13.5953081	0.001873643	0.002127595	0.002456008
53	On-Road	HDV	2039	7.010922378	10.35916537	14.76094464	0.00226706	0.002557915	0.002925123
54	On-Road	HDV	2040	7.767201684	11.30644596	15.88690139	0.002637828	0.002963534	0.003367438
55	On-Road	HDV	2041	8.632104252	12.29742131	16.98169795	0.003002637	0.003362414	0.00380202

	A	C	D	S	T	U	V	W	X
17		**Subsector**	**Year**	**Conservative CH4 Reductions from Diesel (MT/yr)**	**Moderate CH4 Reductions from Diesel (MT/yr)**	**Ambitious CH4 Reductions from Diesel (MT/yr)**	**Conservative CH4 Reductions from Gasoline (MT/yr)**	**Moderate CH4 Reductions from Gasoline (MT/yr)**	**Ambitious CH4 Reductions from Gasoline (MT/yr)**
56	On-Road	HDV	2042	9.614431631	13.33599793	18.04282282	0.003350007	0.003742102	0.004215476
57	On-Road	HDV	2043	10.71394597	14.42540419	19.07737189	0.003690434	0.004114155	0.004620536
58	On-Road	HDV	2044	11.92698379	15.56512083	20.08831707	0.004014714	0.004468513	0.005006248
59	On-Road	HDV	2045	13.24826653	16.75234992	21.07557667	0.004298029	0.004777778	0.005342303
65	On-Road	Bus	2030	0.071917657	0.148529689	0.274827809	10.91418709	22.56056373	41.74905558
66	On-Road	Bus	2031	0.089684689	0.166460495	0.298513076	14.442766	26.82954961	48.12172877
67	On-Road	Bus	2032	0.108083161	0.182869349	0.31431668	18.36758814	31.12645719	53.53427085
68	On-Road	Bus	2033	0.126065951	0.197068207	0.322572439	22.73219667	35.60257052	58.33464086
69	On-Road	Bus	2034	0.144020655	0.210154913	0.326081209	27.3735416	40.05639551	62.27754219
70	On-Road	Bus	2035	0.161613023	0.22206414	0.325625842	33.29765629	45.93995009	67.6105055
71	On-Road	Bus	2036	0.175328373	0.230906415	0.32389029	41.03137465	53.60667355	74.50477906
72	On-Road	Bus	2037	0.18460518	0.235686648	0.319184351	49.59154755	62.39730862	83.02744942
73	On-Road	Bus	2038	0.190053646	0.237001126	0.312034661	57.53112854	70.47667384	90.71505415
74	On-Road	Bus	2039	0.191709357	0.234713	0.301968121	66.57663876	79.95874593	100.2870734
75	On-Road	Bus	2040	0.18969773	0.228869986	0.288871504	74.66086091	88.32118857	108.5133995
76	On-Road	Bus	2041	0.186334464	0.222186913	0.276038954	79.65881184	93.12284277	112.5186161
77	On-Road	Bus	2042	0.179868237	0.212314281	0.260108836	84.51644599	97.87048637	116.6484348
78	On-Road	Bus	2043	0.174521074	0.204172045	0.246999742	89.58951749	102.9514898	121.3217043
79	On-Road	Bus	2044	0.170258025	0.197688075	0.236570437	93.6080237	106.8932834	124.7800097
80	On-Road	Bus	2045	0.166661621	0.192277734	0.227947332	96.76162467	109.9174363	127.2908159
86	Off-Road	Agriculture	2030	0.817520484	1.334658382	2.036975908	0.103468582	0.167944831	0.255663187
87	Off-Road	Agriculture	2031	1.148816161	1.835299395	2.765537672	0.146776374	0.232304787	0.348564796
88	Off-Road	Agriculture	2032	1.500248347	2.380225942	3.559258292	0.193249847	0.302477829	0.449481372
89	Off-Road	Agriculture	2033	1.869609494	2.967456788	4.415151282	0.242539531	0.378155685	0.557953429
90	Off-Road	Agriculture	2034	2.255104073	3.595248179	5.330490492	0.294312802	0.459033361	0.673536323
91	Off-Road	Agriculture	2035	2.655074721	4.261880092	6.30259381	0.348269717	0.544832526	0.795827151
92	Off-Road	Agriculture	2036	3.169527347	5.000084674	7.293673615	0.417002468	0.640240629	0.921351725
93	Off-Road	Agriculture	2037	3.808526554	5.812133648	8.297286479	0.501708523	0.745535231	1.04936397
94	Off-Road	Agriculture	2038	4.574866224	6.697931975	9.309831769	0.602759963	0.860681461	1.179340295
95	Off-Road	Agriculture	2039	5.470135165	7.65698978	10.32824687	0.720364679	0.985567126	1.310779753
96	Off-Road	Agriculture	2040	6.495256221	8.68858253	11.34976055	0.854676164	1.120086763	1.443261587
97	Off-Road	Agriculture	2041	7.522046054	9.72108638	12.37184743	0.988758858	1.254715166	1.576319266
98	Off-Road	Agriculture	2042	8.540836416	10.74816122	13.39220853	1.121445338	1.388696464	1.709699377
99	Off-Road	Agriculture	2043	9.550569711	11.76829657	14.40875608	1.252517828	1.521762347	1.843072046
100	Off-Road	Agriculture	2044	10.55085549	12.78043648	15.4195992	1.381871196	1.65373712	1.976174929
101	Off-Road	Agriculture	2045	11.54135535	13.78363521	16.42303028	1.509394489	1.784440787	2.108743334
107	Off-Road	CHC	2030	1.287482592	1.60935324	1.635375704	0	0	0

	A	C	D	S	T	U	V	W	X
17		**Subsector**	**Year**	**Conservative CH4 Reductions from Diesel (MT/yr)**	**Moderate CH4 Reductions from Diesel (MT/yr)**	**Ambitious CH4 Reductions from Diesel (MT/yr)**	**Conservative CH4 Reductions from Gasoline (MT/yr)**	**Moderate CH4 Reductions from Gasoline (MT/yr)**	**Ambitious CH4 Reductions from Gasoline (MT/yr)**
108	Off-Road	CHC	2031	2.099747602	2.632432209	2.780321456	0	0	0
109	Off-Road	CHC	2032	2.86579485	3.605366254	3.931077135	0	0	0
110	Off-Road	CHC	2033	3.574986765	4.513578894	5.062340178	0	0	0
111	Off-Road	CHC	2034	4.2349317	5.365325335	6.173127641	0	0	0
112	Off-Road	CHC	2035	11.56861118	14.78707538	18.09793277	0	0	0
113	Off-Road	CHC	2036	18.72373977	23.97892311	29.72772521	0	0	0
114	Off-Road	CHC	2037	24.53311887	31.44215799	39.17235221	0	0	0
115	Off-Road	CHC	2038	29.03301967	37.22345567	46.49147062	0	0	0
116	Off-Road	CHC	2039	32.47197564	41.64202257	52.08830789	0	0	0
117	Off-Road	CHC	2040	35.09100031	45.00739258	56.35376535	0	0	0
118	Off-Road	CHC	2041	37.5906148	47.84708024	59.60201571	0	0	0
119	Off-Road	CHC	2042	40.11045461	50.34652942	62.07309121	0	0	0
120	Off-Road	CHC	2043	42.66685146	52.59655548	63.94782957	0	0	0
121	Off-Road	CHC	2044	45.25042658	54.65354707	65.36227317	0	0	0
122	Off-Road	CHC	2045	47.84866648	56.55706262	66.41909962	0	0	0
128	Off-Road	CHE	2030	0.318787022	0.373024096	0.534154354	5.565999694	6.517368518	9.335480438
129	Off-Road	CHE	2031	0.43201393	0.498074132	0.701521973	7.553718661	8.713703579	12.27663939
130	Off-Road	CHE	2032	0.537961917	0.634273277	0.890636216	9.419123504	11.10817576	15.60106301
131	Off-Road	CHE	2033	0.635817008	0.779757485	1.09866804	11.14609623	13.6675856	19.25906208
132	Off-Road	CHE	2034	0.727390485	0.935789309	1.327064913	12.7643743	16.41362561	23.27619739
133	Off-Road	CHE	2035	0.813451868	1.102432156	1.575625202	14.28592427	19.34698637	27.64894498
134	Off-Road	CHE	2036	0.922725452	1.274481034	1.808415134	16.21124624	22.37620275	31.74943354
135	Off-Road	CHE	2037	1.058227893	1.453701357	2.026566693	18.59309003	25.53227448	35.59769118
136	Off-Road	CHE	2038	1.216995748	1.637679535	2.228276761	21.38128574	28.77248212	39.15976136
137	Off-Road	CHE	2039	1.399659459	1.828863804	2.418039204	24.58920061	32.13975082	42.5124402
138	Off-Road	CHE	2040	1.602573904	2.02442841	2.593903246	28.15415415	35.58419256	45.61982875
139	Off-Road	CHE	2041	1.806345847	2.222080296	2.77421161	31.7403158	39.06816395	48.80435368
140	Off-Road	CHE	2042	1.998755581	2.409780352	2.947123668	35.13276336	42.3797496	51.85742805
141	Off-Road	CHE	2043	2.180455113	2.588185829	3.113251817	38.34051515	45.52927292	54.79001887
142	Off-Road	CHE	2044	2.352714524	2.758401935	3.273428794	41.38325786	48.53487094	57.61704626
143	Off-Road	CHE	2045	2.516715733	2.92146416	3.428443399	44.28004415	51.41392386	60.35259861
149	Off-Road	C&M	2030	1.185622153	3.191879692	5.717950953	2.376113508	5.487319295	9.45837759
150	Off-Road	C&M	2031	1.81267792	4.15599106	7.101877626	3.51287865	7.066409046	11.59905887
151	Off-Road	C&M	2032	2.832950305	5.366290236	8.536978854	5.248691049	9.042262042	13.85253925
152	Off-Road	C&M	2033	4.240821823	6.822243549	10.02930512	7.548976336	11.40387248	16.23918123
153	Off-Road	C&M	2034	6.013226169	8.51219642	11.58228958	10.34718521	14.1153437	18.76541377
154	Off-Road	C&M	2035	8.130707227	10.42466252	13.1951029	13.58980081	17.14389503	21.42777647

	A	C	D	S	T	U	V	W	X
17		**Subsector**	**Year**	**Conservative CH4 Reductions from Diesel (MT/yr)**	**Moderate CH4 Reductions from Diesel (MT/yr)**	**Ambitious CH4 Reductions from Diesel (MT/yr)**	**Conservative CH4 Reductions from Gasoline (MT/yr)**	**Moderate CH4 Reductions from Gasoline (MT/yr)**	**Ambitious CH4 Reductions from Gasoline (MT/yr)**
155	Off-Road	C&M	2036	9.72588543	11.82435719	14.31729087	15.99289549	19.31240683	23.22989303
156	Off-Road	C&M	2037	11.44575885	13.46956277	15.83763201	18.53140512	21.77321271	25.53535176
157	Off-Road	C&M	2038	13.01611873	15.0183735	17.33285751	20.84079172	24.04266706	27.71345787
158	Off-Road	C&M	2039	14.48419893	16.49539443	18.79777078	23.03690316	26.20076886	29.79340846
159	Off-Road	C&M	2040	15.89778669	17.93256117	20.24311905	25.21872505	28.32434812	31.81947359
160	Off-Road	C&M	2041	17.2203851	19.29324916	21.63157017	27.24767217	30.340773	33.79684935
161	Off-Road	C&M	2042	18.48797887	20.61534476	23.00257127	29.1263663	32.26247624	35.74863992
162	Off-Road	C&M	2043	19.70658573	21.90198582	24.35559278	30.88036252	34.10442749	37.67653609
163	Off-Road	C&M	2044	20.88389721	23.15768488	25.69114907	32.54090904	35.88335263	39.57940221
164	Off-Road	C&M	2045	22.02814439	24.38745346	27.01017656	34.13783012	37.616311	41.4585381
170	Off-Road	GSE	2030	0.173860939	0.282283416	0.499970973	0.354715983	0.579384634	1.026655852
171	Off-Road	GSE	2031	0.25185566	0.384563835	0.657555003	0.519767632	0.799682265	1.370188671
172	Off-Road	GSE	2032	0.35174472	0.504983108	0.81973531	0.734130632	1.063986155	1.736404647
173	Off-Road	GSE	2033	0.477005445	0.646630859	0.988086788	1.007502733	1.380828403	2.129386184
174	Off-Road	GSE	2034	0.62805447	0.808965147	1.159658937	1.340833882	1.748152941	2.539243567
175	Off-Road	GSE	2035	0.805782043	0.992240935	1.333055437	1.737546907	2.167425553	2.961938141
176	Off-Road	GSE	2036	0.948100623	1.137470102	1.466521811	2.081024985	2.528356438	3.320710163
177	Off-Road	GSE	2037	1.094417228	1.28892837	1.611120038	2.437772427	2.905210352	3.700015423
178	Off-Road	GSE	2038	1.225300419	1.424908159	1.742222219	2.771327927	3.257685573	4.05509547
179	Off-Road	GSE	2039	1.342713354	1.54731974	1.861341605	3.082002514	3.58607088	4.386141137
180	Off-Road	GSE	2040	1.448530846	1.657955949	1.969811582	3.37111565	3.89170376	4.694358587
181	Off-Road	GSE	2041	1.526505676	1.738729738	2.047225575	3.582820416	4.113053138	4.911832629
182	Off-Road	GSE	2042	1.596181332	1.811002558	2.116755122	3.776398767	4.315321941	5.110265289
183	Off-Road	GSE	2043	1.659150525	1.876374928	2.179803934	3.955180982	4.502019261	5.293165053
184	Off-Road	GSE	2044	1.716045394	1.93545091	2.236820398	4.120054586	4.674058349	5.461391817
185	Off-Road	GSE	2045	1.767678347	1.989058498	2.288560127	4.271779342	4.832225433	5.615697036

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17		Subsector	Year	Conservative N2O Reductions from Diesel (MT/yr)	Moderate N2O Reductions from Diesel (MT/yr)	Ambitious N2O Reductions from Diesel (MT/yr)	Conservative N2O Reductions from Gasoline (MT/yr)	Moderate N2O Reductions from Gasoline (MT/yr)	Ambitious N2O Reductions from Gasoline (MT/yr)
23	On-Road	MDV	2030	8.050824427	16.97202281	31.93758526	1.036178525	1.910696241	3.464685448
24	On-Road	MDV	2031	11.24676889	21.54602547	39.44868314	1.493906606	2.522447238	4.428365631
25	On-Road	MDV	2032	15.42431463	27.02236881	47.41966247	2.134022061	3.336853484	5.590216014
26	On-Road	MDV	2033	20.69105833	33.48016365	55.81977598	2.980423396	4.36751468	6.930390323
27	On-Road	MDV	2034	27.14114628	40.98653272	64.61125825	4.04123077	5.60374045	8.390849618
28	On-Road	MDV	2035	34.82589554	49.55766104	73.69730873	5.340831366	7.063390105	9.96544891
29	On-Road	MDV	2036	42.41539558	57.84033108	82.26006524	6.613666891	8.469092484	11.45329525
30	On-Road	MDV	2037	49.86863707	65.80877794	90.32708873	7.816451014	9.773373155	12.80660557
31	On-Road	MDV	2038	57.27454883	73.56841035	98.02296531	8.973423559	11.00862844	14.06928843
32	On-Road	MDV	2039	64.67507138	81.16732989	105.4006962	10.0499616	12.13177895	15.1843834
33	On-Road	MDV	2040	72.13069073	88.67484888	112.5376317	11.03784758	13.13777835	16.152102
34	On-Road	MDV	2041	79.73384194	96.38104503	119.9581993	11.98199663	14.10352173	17.0899211
35	On-Road	MDV	2042	87.47438914	104.2834786	127.6674948	12.85152446	14.99357286	17.95547212
36	On-Road	MDV	2043	95.37546534	112.4053742	135.6870938	13.67628652	15.84021556	18.78326665
37	On-Road	MDV	2044	103.3376203	120.6345008	143.888937	14.4171749	16.59913747	19.5223281
38	On-Road	MDV	2045	111.4516024	129.0680265	152.3757104	15.06263979	17.25599199	20.15408736
44	On-Road	HDV	2030	60.85344876	182.5603463	372.1849704	0	0	0
45	On-Road	HDV	2031	81.2684846	220.9725201	442.6667082	0	0	0
46	On-Road	HDV	2032	115.0627221	272.97633	523.1156823	8.2514E-05	0.000126945	0.000202477
47	On-Road	HDV	2033	163.2036917	339.4733148	614.0465132	0.000318671	0.000440316	0.000640277
48	On-Road	HDV	2034	226.7623154	421.538453	716.3041961	0.000637051	0.000818064	0.001103616
49	On-Road	HDV	2035	306.7780508	520.137208	830.4968177	0.001120627	0.001346261	0.001678142
50	On-Road	HDV	2036	381.9998082	612.7619562	937.5018482	0.001657965	0.001932132	0.002313569
51	On-Road	HDV	2037	452.437623	699.593744	1038.112284	0.002209134	0.002532999	0.00296511
52	On-Road	HDV	2038	518.6802402	781.39683	1133.275219	0.002753709	0.003126946	0.003609617
53	On-Road	HDV	2039	581.2698717	858.869975	1223.817914	0.003290095	0.003712201	0.004245116
54	On-Road	HDV	2040	640.7798497	932.760991	1310.640138	0.003774604	0.004240674	0.004818641
55	On-Road	HDV	2041	708.8488865	1009.836437	1394.498645	0.004258893	0.004769195	0.005392726

	A	C	D	Y	Z	AA	AB	AC	AD
17		**Subsector**	**Year**	**Conservative N2O Reductions from Diesel (MT/yr)**	**Moderate N2O Reductions from Diesel (MT/yr)**	**Ambitious N2O Reductions from Diesel (MT/yr)**	**Conservative N2O Reductions from Gasoline (MT/yr)**	**Moderate N2O Reductions from Gasoline (MT/yr)**	**Ambitious N2O Reductions from Gasoline (MT/yr)**
56	On-Road	HDV	2042	786.2649002	1090.613307	1475.535823	0.004657842	0.00520301	0.005861188
57	On-Road	HDV	2043	872.8695905	1175.24362	1554.241344	0.005146768	0.005737699	0.006443911
58	On-Road	HDV	2044	968.2965924	1263.660095	1630.877455	0.005661561	0.006301509	0.007059825
59	On-Road	HDV	2045	1072.15026	1355.727278	1705.595593	0.006167165	0.006855548	0.007665575
65	On-Road	Bus	2030	4.391164369	9.068958957	16.78049786	7.914473248	16.35989713	30.27452073
66	On-Road	Bus	2031	5.701525413	10.58239427	18.97737396	10.24157104	19.02521569	34.12380314
67	On-Road	Bus	2032	7.200276142	12.1823769	20.93912563	12.76410589	21.6305697	37.20233145
68	On-Road	Bus	2033	8.850428063	13.8351234	22.64611607	15.27240988	23.91924801	39.19157301
69	On-Road	Bus	2034	10.68111473	15.58588062	24.18341185	17.85076431	26.12147474	40.61227238
70	On-Road	Bus	2035	12.69349976	17.44148494	25.57548557	20.63717155	28.47259347	41.90353785
71	On-Road	Bus	2036	14.48920037	19.0821899	26.76641107	25.09675896	32.7884156	45.5707004
72	On-Road	Bus	2037	16.07765495	20.52644788	27.7984392	29.82647149	37.52840229	49.93624872
73	On-Road	Bus	2038	17.46131874	21.7746531	28.66841444	34.03731743	41.69632996	53.67002476
74	On-Road	Bus	2039	18.66143008	22.84750369	29.39427197	37.91505035	45.53609095	57.11296796
75	On-Road	Bus	2040	19.68688636	23.75219467	29.97916995	41.12902637	48.65420047	59.77764539
76	On-Road	Bus	2041	20.50665879	24.45232682	30.37890316	43.40593745	50.7424627	61.31118328
77	On-Road	Bus	2042	21.31207344	25.15651243	30.81955273	45.96166304	53.22384611	63.43565434
78	On-Road	Bus	2043	22.15131453	25.9148026	31.35076388	49.75026883	57.17035251	67.37158066
79	On-Road	Bus	2044	22.88688808	26.57416505	31.80091578	53.07045404	60.60244477	70.74320669
80	On-Road	Bus	2045	23.52388406	27.13953644	32.17421368	55.92154785	63.52469993	73.56531554
86	Off-Road	Agriculture	2030	0.688777101	1.12447596	1.7161923	0.064332797	0.104421656	0.158961567
87	Off-Road	Agriculture	2031	0.967900231	1.546275868	2.330019928	0.091259922	0.14443821	0.216724226
88	Off-Road	Agriculture	2032	1.263988764	2.005387211	2.998745175	0.120155345	0.188069116	0.279470283
89	Off-Road	Agriculture	2033	1.575182802	2.500140758	3.719851867	0.150801781	0.235122706	0.346914049
90	Off-Road	Agriculture	2034	1.899969574	3.029067363	4.491043171	0.182992416	0.285409344	0.418779061
91	Off-Road	Agriculture	2035	2.236952718	3.590717873	5.310059351	0.216540756	0.338755975	0.494814809
92	Off-Road	Agriculture	2036	2.670389182	4.212669765	6.145063597	0.259276146	0.398077075	0.572861176
93	Off-Road	Agriculture	2037	3.208758593	4.89683701	6.990627191	0.311943123	0.463545221	0.652454282
94	Off-Road	Agriculture	2038	3.854414851	5.643139538	7.84371653	0.374773034	0.535138732	0.733268577
95	Off-Road	Agriculture	2039	4.608696556	6.451164617	8.701751296	0.447895137	0.612787851	0.814992593
96	Off-Road	Agriculture	2040	5.472381226	7.320301817	9.562396688	0.531404869	0.696427003	0.897364717
97	Off-Road	Agriculture	2041	6.337471872	8.190206635	10.423525	0.614772347	0.780133782	0.98009488
98	Off-Road	Agriculture	2042	7.195822807	9.055537405	11.28319931	0.697271713	0.863438216	1.063025519
99	Off-Road	Agriculture	2043	8.046542984	9.91502152	12.13966063	0.778767562	0.94617348	1.145951531
100	Off-Road	Agriculture	2044	8.889303441	10.76776931	12.99131586	0.859194526	1.028230334	1.2287098
101	Off-Road	Agriculture	2045	9.723819078	11.612984	13.8367263	0.93848362	1.109496863	1.311135752
107	Off-Road	CHC	2030	0.034145404	0.042681755	0.043371899	0	0	0

	A	C	D	Y	Z	AA	AB	AC	AD
17		**Subsector**	**Year**	**Conservative N2O Reductions from Diesel (MT/yr)**	**Moderate N2O Reductions from Diesel (MT/yr)**	**Ambitious N2O Reductions from Diesel (MT/yr)**	**Conservative N2O Reductions from Gasoline (MT/yr)**	**Moderate N2O Reductions from Gasoline (MT/yr)**	**Ambitious N2O Reductions from Gasoline (MT/yr)**
108	Off-Road	CHC	2031	0.055687534	0.069814895	0.073737074	0	0	0
109	Off-Road	CHC	2032	0.07600392	0.095618138	0.104256336	0	0	0
110	Off-Road	CHC	2033	0.094812442	0.1197049	0.134258632	0	0	0
111	Off-Road	CHC	2034	0.112314881	0.14229412	0.163717894	0	0	0
112	Off-Road	CHC	2035	0.306811841	0.392168926	0.479976376	0	0	0
113	Off-Road	CHC	2036	0.496573442	0.635946479	0.788410809	0	0	0
114	Off-Road	CHC	2037	0.650644338	0.833879385	1.038892336	0	0	0
115	Off-Road	CHC	2038	0.769986481	0.987205533	1.233003121	0	0	0
116	Off-Road	CHC	2039	0.861191242	1.104390614	1.381437183	0	0	0
117	Off-Road	CHC	2040	0.930650554	1.193643797	1.494561639	0	0	0
118	Off-Road	CHC	2041	0.996942982	1.268955326	1.580708685	0	0	0
119	Off-Road	CHC	2042	1.063771807	1.33524337	1.646244229	0	0	0
120	Off-Road	CHC	2043	1.131570163	1.394916448	1.695964279	0	0	0
121	Off-Road	CHC	2044	1.200089317	1.449470047	1.733476823	0	0	0
122	Off-Road	CHC	2045	1.268997395	1.499953299	1.761504982	0	0	0
128	Off-Road	CHE	2030	0.466517593	0.545888921	0.781689298	3.128335595	3.663046539	5.246948859
129	Off-Road	CHE	2031	0.632215507	0.728888974	1.026617522	4.245520708	4.897483033	6.900009
130	Off-Road	CHE	2032	0.787261342	0.928204795	1.303370073	5.293959926	6.243281267	8.768480669
131	Off-Road	CHE	2033	0.930463913	1.141108514	1.607806888	6.264594231	7.681781689	10.82443635
132	Off-Road	CHE	2034	1.064473881	1.369447769	1.942046214	7.174137383	9.225176437	13.08224233
133	Off-Road	CHE	2035	1.190417367	1.61331535	2.305792979	8.029315102	10.87385365	15.53991798
134	Off-Road	CHE	2036	1.350329929	1.865094195	2.646461172	9.111430368	12.57640592	17.84457214
135	Off-Road	CHE	2037	1.548626185	2.127367839	2.965707356	10.45013089	14.35025646	20.00746147
136	Off-Road	CHE	2038	1.780969387	2.396604197	3.26089282	12.01721899	16.17139506	22.00950091
137	Off-Road	CHE	2039	2.048282135	2.676386055	3.538593957	13.82020764	18.06394754	23.89385325
138	Off-Road	CHE	2040	2.345230104	2.962578161	3.79595597	15.82386766	19.99987465	25.64034171
139	Off-Road	CHE	2041	2.643432947	3.251824824	4.059821868	17.83944756	21.95801915	27.43018418
140	Off-Road	CHE	2042	2.925008167	3.526507833	4.312863905	19.74615167	23.81927532	29.14614569
141	Off-Road	CHE	2043	3.190909922	3.787589019	4.555978269	21.54904866	25.58944536	30.79439017
142	Off-Road	CHE	2044	3.442996864	4.036685759	4.790383601	23.25920332	27.27872308	32.38330337
143	Off-Road	CHE	2045	3.682998633	4.275313405	5.017234242	24.88732409	28.89687691	33.9208036
149	Off-Road	C&M	2030	1.103450321	2.970660307	5.321657323	1.225574336	2.830301531	4.878531599
150	Off-Road	C&M	2031	1.687046777	3.867952076	6.609668286	1.81190583	3.644779403	5.98267247
151	Off-Road	C&M	2032	2.636607215	4.994369131	7.945307052	2.707219594	4.66390358	7.144993929
152	Off-Road	C&M	2033	3.946903479	6.349414789	9.334204763	3.893682531	5.881997387	8.37599874
153	Off-Road	C&M	2034	5.59646792	7.922242213	10.77955664	5.336969212	7.280545699	9.67900289
154	Off-Road	C&M	2035	7.567192865	9.702161153	12.28059082	7.009476208	8.842640595	11.05222155

	A	C	D	Y	Z	AA	AB	AC	AD
17		**Subsector**	**Year**	**Conservative N2O Reductions from Diesel (MT/yr)**	**Moderate N2O Reductions from Diesel (MT/yr)**	**Ambitious N2O Reductions from Diesel (MT/yr)**	**Conservative N2O Reductions from Gasoline (MT/yr)**	**Moderate N2O Reductions from Gasoline (MT/yr)**	**Ambitious N2O Reductions from Gasoline (MT/yr)**
155	Off-Road	C&M	2036	9.051814162	11.00484729	13.32500338	8.248967148	9.961136154	11.9817343
156	Off-Road	C&M	2037	10.65248843	12.53602872	14.73997435	9.558303694	11.23039393	13.17086565
157	Off-Road	C&M	2038	12.11401149	13.97749613	16.13157036	10.74946099	12.40095459	14.29430985
158	Off-Road	C&M	2039	13.48034356	15.35214928	17.49495498	11.88219216	13.51408078	15.36712647
159	Off-Road	C&M	2040	14.79595989	16.6897104	18.8401306	13.00755292	14.60940061	16.41214953
160	Off-Road	C&M	2041	16.02689306	17.95609328	20.13235243	14.05406249	15.64945134	17.43205914
161	Off-Road	C&M	2042	17.2066338	19.18655849	21.40833366	15.02307314	16.64064564	18.43877217
162	Off-Road	C&M	2043	18.34078276	20.38402641	22.6675814	15.92776593	17.59070471	19.43316072
163	Off-Road	C&M	2044	19.43649839	21.55269682	23.91057438	16.78425834	18.50825557	20.41463903
164	Off-Road	C&M	2045	20.50144131	22.69723391	25.13818412	17.60793343	19.40209725	21.38387755
170	Off-Road	GSE	2030	0.107275899	0.174174874	0.308492728	0.368491361	0.601885008	1.066525983
171	Off-Road	GSE	2031	0.155400301	0.237284069	0.405725428	0.539952783	0.830737887	1.423399882
172	Off-Road	GSE	2032	0.217033976	0.311585322	0.505794128	0.76264056	1.105306006	1.803837837
173	Off-Road	GSE	2033	0.294322509	0.398984998	0.609670571	1.046629053	1.434452807	2.212080793
174	Off-Road	GSE	2034	0.387522971	0.499148707	0.715534238	1.392905101	1.816042376	2.637854967
175	Off-Road	GSE	2035	0.497184665	0.612233768	0.822523567	1.805024457	2.25159742	3.076964865
176	Off-Road	GSE	2036	0.584998257	0.701843254	0.90487516	2.161841489	2.626545038	3.449669781
177	Off-Road	GSE	2037	0.675278715	0.795296228	0.994095343	2.532443201	3.018034055	3.843705342
178	Off-Road	GSE	2038	0.756036429	0.879198651	1.074988178	2.878952312	3.384197634	4.212574906
179	Off-Road	GSE	2039	0.828482708	0.954729201	1.148487374	3.201691932	3.725335768	4.556476715
180	Off-Road	GSE	2040	0.893774352	1.022994096	1.215415657	3.502032762	4.042837886	4.876663775
181	Off-Road	GSE	2041	0.941886481	1.072833243	1.263181738	3.721959073	4.272783357	5.10258341
182	Off-Road	GSE	2042	0.984877843	1.11742711	1.306082948	3.923055029	4.482907259	5.308722193
183	Off-Road	GSE	2043	1.023731175	1.157763253	1.344985406	4.108780243	4.67685496	5.498724861
184	Off-Road	GSE	2044	1.05883652	1.194214392	1.380165777	4.280056706	4.855575178	5.673484703
185	Off-Road	GSE	2045	1.090695151	1.227291414	1.412090291	4.437673685	5.019884674	5.833782358

Appendix C.3:

Power Generation

GHG Results, Calculations, and Data

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
97	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT97
98	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT98
99	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	675560.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT99
100	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT100
101	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT101
102	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT102
104	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT104
105	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT105
106	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT106
107	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT107
108	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	714330.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT108
109	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	885595.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT109
110	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT110
111	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT111
112	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT112
114	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT114
115	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT115
116	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT116
117	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT117
118	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1841603.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT118
119	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1058278.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT119
120	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT120
121	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT121
122	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT122
124	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT124
125	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT125
126	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT126
127	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT127
128	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3381816.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT128
129	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1193608.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT129
130	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT130
131	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT131
132	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT132
134	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT134
135	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT135
136	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT136
137	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT137
138	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5334970.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT138
139	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1291586.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT139

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
140	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT140
141	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT141
142	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT142
144	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT144
145	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT145
146	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT146
147	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT147
148	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7701066.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT148
149	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1352212.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT149
150	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT150
151	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT151
152	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT152
154	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT154
155	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT155
156	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT156
157	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT157
158	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10565211.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT158
159	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1398194.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT159
160	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT160
161	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT161
162	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT162
164	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT164
165	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT165
166	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT166
167	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT167
168	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	13874525.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT168
169	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1403909.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT169
170	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT170
171	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT171
172	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT172
174	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT174
175	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT175
176	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT176
177	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT177
178	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17629009.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT178
179	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1369357.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT179
180	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT180
181	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT181
182	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT182

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
184	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT184
185	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT185
186	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT186
187	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT187
188	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21828661.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT188
189	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1294537.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT189
190	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT190
191	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT191
192	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT192
194	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT194
195	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT195
196	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT196
197	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT197
198	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	26473483.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT198
199	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1179449.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT199
200	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT200
201	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT201
202	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT202
204	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT204
205	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT205
206	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT206
207	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT207
208	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	31830315.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT208
209	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1032752.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT209
210	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT210
211	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT211
212	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT212
214	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT214
215	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT215
216	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT216
217	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT217
218	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	37680174.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT218
219	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	841458.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT219
220	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT220
221	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT221
222	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT222
224	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT224
225	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT225
226	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT226

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
227	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT227
228	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	44023060.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT228
229	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	605568.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT229
230	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT230
231	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT231
232	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT232
234	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT234
235	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT235
236	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT236
237	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT237
238	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50858971.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT238
239	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	325082.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT239
240	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT240
241	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT241
242	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT242
244	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT244
245	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT245
246	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT246
247	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT247
248	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	58187910.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT248
249	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT249
250	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT250
251	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT251
252	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT252
254	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT254
255	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT255
256	1-SoCal_PowerPeakerBaseload (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT256
397	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT397
398	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT398
399	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	675560.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT399
400	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT400
401	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT401
402	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT402
404	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT404
405	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT405
406	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT406
407	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT407
408	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	714330.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT408
409	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	885595.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT409

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
410	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT410
411	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT411
412	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT412
414	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT414
415	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT415
416	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT416
417	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT417
418	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1841603.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT418
419	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1058278.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT419
420	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT420
421	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT421
422	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT422
424	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT424
425	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT425
426	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT426
427	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT427
428	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3381816.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT428
429	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1193608.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT429
430	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT430
431	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT431
432	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT432
434	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT434
435	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT435
436	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT436
437	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT437
438	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5334970.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT438
439	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1291586.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT439
440	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT440
441	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT441
442	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT442
444	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT444
445	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT445
446	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT446
447	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT447
448	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7701066.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT448
449	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1352212.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT449
450	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT450
451	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT451
452	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT452

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
454	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT454
455	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT455
456	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT456
457	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT457
458	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10565211.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT458
459	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1398194.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT459
460	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT460
461	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT461
462	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT462
464	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT464
465	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT465
466	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT466
467	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT467
468	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	13874525.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT468
469	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1403909.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT469
470	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT470
471	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT471
472	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT472
474	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT474
475	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT475
476	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT476
477	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT477
478	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17629009.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT478
479	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1369357.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT479
480	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT480
481	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT481
482	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT482
484	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT484
485	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT485
486	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT486
487	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT487
488	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21828661.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT488
489	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1294537.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT489
490	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT490
491	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT491
492	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT492
494	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT494
495	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT495
496	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT496

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
497	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT497
498	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	26473483.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT498
499	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1179449.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT499
500	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT500
501	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT501
502	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT502
504	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT504
505	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT505
506	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT506
507	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT507
508	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	31830315.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT508
509	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1032752.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT509
510	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT510
511	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT511
512	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT512
514	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT514
515	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT515
516	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT516
517	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT517
518	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	37680174.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT518
519	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	841458.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT519
520	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT520
521	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT521
522	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT522
524	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT524
525	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT525
526	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT526
527	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT527
528	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	44023060.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT528
529	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	605568.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT529
530	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT530
531	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT531
532	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT532
534	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT534
535	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT535
536	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT536
537	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT537
538	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50858971.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT538
539	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	325082.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT539

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
540	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT540
541	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT541
542	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT542
544	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT544
545	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT545
546	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT546
547	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT547
548	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	58187910.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT548
549	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT549
550	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT550
551	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT551
552	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT552
554	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT554
555	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT555
556	2-SoCal_PowerPeakerBaseload (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT556
697	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT697
698	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT698
699	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	675560.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT699
700	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT700
701	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT701
702	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT702
704	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT704
705	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT705
706	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT706
707	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT707
708	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	714330.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT708
709	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	885595.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT709
710	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT710
711	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT711
712	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT712
714	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT714
715	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT715
716	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT716
717	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT717
718	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1841603.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT718
719	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1058278.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT719
720	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT720
721	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT721
722	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT722

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
724	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT724
725	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT725
726	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT726
727	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT727
728	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3381816.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT728
729	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1193608.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT729
730	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT730
731	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT731
732	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT732
734	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT734
735	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT735
736	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT736
737	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT737
738	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5334970.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT738
739	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1291586.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT739
740	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT740
741	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT741
742	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT742
744	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT744
745	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT745
746	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT746
747	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT747
748	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7701066.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT748
749	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1352212.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT749
750	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT750
751	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT751
752	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT752
754	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT754
755	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT755
756	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT756
757	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT757
758	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10565211.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT758
759	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1398194.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT759
760	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT760
761	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT761
762	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT762
764	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT764
765	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT765
766	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT766

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
767	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT767
768	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	13874525.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT768
769	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1403909.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT769
770	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT770
771	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT771
772	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT772
774	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT774
775	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT775
776	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT776
777	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT777
778	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17629009.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT778
779	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1369357.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT779
780	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT780
781	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT781
782	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT782
784	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT784
785	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT785
786	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT786
787	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT787
788	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21828661.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT788
789	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1294537.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT789
790	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT790
791	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT791
792	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT792
794	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT794
795	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT795
796	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT796
797	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT797
798	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	26473483.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT798
799	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1179449.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT799
800	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT800
801	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT801
802	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT802
804	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT804
805	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT805
806	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT806
807	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT807
808	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	31830315.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT808
809	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1032752.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT809

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
810	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT810
811	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT811
812	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT812
814	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT814
815	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT815
816	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT816
817	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT817
818	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	37680174.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT818
819	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	841458.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT819
820	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT820
821	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT821
822	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT822
824	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT824
825	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT825
826	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT826
827	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT827
828	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	44023060.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT828
829	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	605568.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT829
830	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT830
831	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT831
832	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT832
834	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT834
835	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT835
836	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT836
837	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT837
838	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50858971.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT838
839	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	325082.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT839
840	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT840
841	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT841
842	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT842
844	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT844
845	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT845
846	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT846
847	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT847
848	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	58187910.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT848
849	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT849
850	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT850
851	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT851
852	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT852

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
854	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT854
855	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT855
856	3-SoCal_PowerPeakerBaseload (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT856
997	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT997
998	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT998
999	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	675560.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT999
1000	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1000
1001	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1001
1002	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1002
1004	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1004
1005	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1005
1006	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1006
1007	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1007
1008	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	714330.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1008
1009	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	885595.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1009
1010	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1010
1011	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1011
1012	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1012
1014	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1014
1015	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1015
1016	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1016
1017	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1017
1018	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1841603.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1018
1019	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1058278.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1019
1020	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1020
1021	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1021
1022	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1022
1024	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1024
1025	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1025
1026	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1026
1027	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1027
1028	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3381816.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1028
1029	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1193608.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1029
1030	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1030
1031	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1031
1032	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1032
1034	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1034
1035	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1035
1036	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1036

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1037	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1037
1038	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5334970.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1038
1039	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1291586.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1039
1040	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1040
1041	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1041
1042	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1042
1044	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1044
1045	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1045
1046	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1046
1047	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1047
1048	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7701066.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1048
1049	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1352212.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1049
1050	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1050
1051	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1051
1052	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1052
1054	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1054
1055	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1055
1056	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1056
1057	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1057
1058	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10565211.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1058
1059	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1398194.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1059
1060	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1060
1061	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1061
1062	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1062
1064	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1064
1065	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1065
1066	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1066
1067	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1067
1068	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	13874525.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1068
1069	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1403909.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1069
1070	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1070
1071	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1071
1072	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1072
1074	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1074
1075	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1075
1076	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1076
1077	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1077
1078	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17629009.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1078
1079	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1369357.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1079

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1080	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1080
1081	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1081
1082	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1082
1084	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1084
1085	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1085
1086	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1086
1087	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1087
1088	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21828661.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1088
1089	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1294537.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1089
1090	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1090
1091	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1091
1092	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1092
1094	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1094
1095	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1095
1096	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1096
1097	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1097
1098	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	26473483.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1098
1099	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1179449.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1099
1100	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1100
1101	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1101
1102	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1102
1104	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1104
1105	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1105
1106	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1106
1107	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1107
1108	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	31830315.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1108
1109	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1032752.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1109
1110	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1110
1111	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1111
1112	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1112
1114	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1114
1115	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1115
1116	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1116
1117	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1117
1118	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	37680174.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1118
1119	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	841458.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1119
1120	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1120
1121	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1121
1122	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1122

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1124	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1124
1125	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1125
1126	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1126
1127	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1127
1128	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	44023060.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1128
1129	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	605568.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1129
1130	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1130
1131	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1131
1132	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1132
1134	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1134
1135	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1135
1136	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1136
1137	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1137
1138	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50858971.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1138
1139	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	325082.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1139
1140	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1140
1141	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1141
1142	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1142
1144	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1144
1145	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1145
1146	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1146
1147	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1147
1148	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	58187910.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1148
1149	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1149
1150	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1150
1151	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1151
1152	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1152
1154	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1154
1155	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1155
1156	4-SoCal_PowerPeakerBaseload (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1156
1297	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1297
1298	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1298
1299	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1569681.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1299
1300	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1300
1301	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1301
1302	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1302
1304	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1304
1305	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1305
1306	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1306

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1307	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1307
1308	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1659764.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1308
1309	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2057702.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1309
1310	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1310
1311	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1311
1312	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1312
1314	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1314
1315	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1315
1316	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1316
1317	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1317
1318	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4279008.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1318
1319	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2458935.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1319
1320	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1320
1321	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1321
1322	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1322
1324	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1324
1325	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1325
1326	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1326
1327	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1327
1328	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7857730.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1328
1329	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2773378.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1329
1330	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1330
1331	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1331
1332	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1332
1334	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1334
1335	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1335
1336	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1336
1337	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1337
1338	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12395930.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1338
1339	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3001032.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1339
1340	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1340
1341	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1341
1342	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1342
1344	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1344
1345	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1345
1346	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1346
1347	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1347
1348	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17893609.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1348
1349	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3141898.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1349

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1350	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1350
1351	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1351
1352	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1352
1354	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1354
1355	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1355
1356	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1356
1357	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1357
1358	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	24548518.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1358
1359	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3248738.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1359
1360	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1360
1361	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1361
1362	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1362
1364	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1364
1365	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1365
1366	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1366
1367	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1367
1368	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	32237788.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1368
1369	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3262017.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1369
1370	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1370
1371	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1371
1372	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1372
1374	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1374
1375	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1375
1376	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1376
1377	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1377
1378	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	40961420.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1378
1379	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3181733.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1379
1380	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1380
1381	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1381
1382	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1382
1384	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1384
1385	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1385
1386	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1386
1387	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1387
1388	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50719412.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1388
1389	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3007887.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1389
1390	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1390
1391	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1391
1392	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1392

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
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5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1394	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1394
1395	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1395
1396	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1396
1397	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1397
1398	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	61511765.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1398
1399	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2740478.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1399
1400	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1400
1401	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1401
1402	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1402
1404	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1404
1405	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1405
1406	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1406
1407	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1407
1408	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	73958492.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1408
1409	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2399624.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1409
1410	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1410
1411	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1411
1412	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1412
1414	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1414
1415	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1415
1416	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1416
1417	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1417
1418	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	87550777.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1418
1419	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1955149.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1419
1420	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1420
1421	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1421
1422	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1422
1424	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1424
1425	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1425
1426	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1426
1427	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1427
1428	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	102288621.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1428
1429	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1407053.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1429
1430	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1430
1431	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1431
1432	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1432
1434	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1434
1435	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1435
1436	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1436

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1437	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1437
1438	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	118172024.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1438
1439	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	755337.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1439
1440	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1440
1441	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1441
1442	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1442
1444	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1444
1445	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1445
1446	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1446
1447	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1447
1448	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	135200986.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1448
1449	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1449
1450	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1450
1451	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1451
1452	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1452
1454	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1454
1455	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1455
1456	5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1456
1597	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1597
1598	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1598
1599	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1569681.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1599
1600	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1600
1601	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1601
1602	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1602
1604	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1604
1605	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1605
1606	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1606
1607	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1607
1608	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1659764.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1608
1609	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2057702.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1609
1610	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1610
1611	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1611
1612	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1612
1614	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1614
1615	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1615
1616	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1616
1617	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1617
1618	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4279008.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1618
1619	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2458935.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1619

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1620	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1620
1621	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1621
1622	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1622
1624	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1624
1625	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1625
1626	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1626
1627	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1627
1628	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7857730.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1628
1629	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2773378.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1629
1630	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1630
1631	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1631
1632	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1632
1634	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1634
1635	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1635
1636	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1636
1637	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1637
1638	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12395930.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1638
1639	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3001032.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1639
1640	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1640
1641	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1641
1642	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1642
1644	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1644
1645	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1645
1646	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1646
1647	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1647
1648	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17893609.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1648
1649	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3141898.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1649
1650	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1650
1651	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1651
1652	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1652
1654	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1654
1655	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1655
1656	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1656
1657	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1657
1658	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	24548518.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1658
1659	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3248738.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1659
1660	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1660
1661	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1661
1662	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1662

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1664	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1664
1665	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1665
1666	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1666
1667	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1667
1668	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	32237788.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1668
1669	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3262017.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1669
1670	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1670
1671	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1671
1672	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1672
1674	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1674
1675	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1675
1676	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1676
1677	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1677
1678	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	40961420.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1678
1679	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3181733.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1679
1680	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1680
1681	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1681
1682	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1682
1684	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1684
1685	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1685
1686	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1686
1687	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1687
1688	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50719412.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1688
1689	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3007887.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1689
1690	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1690
1691	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1691
1692	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1692
1694	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1694
1695	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1695
1696	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1696
1697	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1697
1698	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	61511765.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1698
1699	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2740478.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1699
1700	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1700
1701	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1701
1702	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1702
1704	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1704
1705	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1705
1706	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1706

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1707	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1707
1708	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	73958492.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1708
1709	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2399624.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1709
1710	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1710
1711	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1711
1712	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1712
1714	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1714
1715	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1715
1716	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1716
1717	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1717
1718	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	87550777.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1718
1719	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1955149.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1719
1720	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1720
1721	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1721
1722	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1722
1724	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1724
1725	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1725
1726	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1726
1727	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1727
1728	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	102288621.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1728
1729	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1407053.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1729
1730	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1730
1731	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1731
1732	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1732
1734	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1734
1735	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1735
1736	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1736
1737	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1737
1738	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	118172024.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1738
1739	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	755337.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1739
1740	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1740
1741	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1741
1742	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1742
1744	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1744
1745	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1745
1746	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1746
1747	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1747
1748	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	135200986.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1748
1749	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1749

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1750	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1750
1751	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1751
1752	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1752
1754	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1754
1755	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1755
1756	6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1756
1897	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1897
1898	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1898
1899	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1569681.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1899
1900	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1900
1901	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1901
1902	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1902
1904	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1904
1905	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1905
1906	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1906
1907	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1907
1908	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1659764.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1908
1909	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2057702.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1909
1910	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1910
1911	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1911
1912	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1912
1914	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1914
1915	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1915
1916	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1916
1917	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1917
1918	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4279008.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1918
1919	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2458935.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1919
1920	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1920
1921	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1921
1922	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1922
1924	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1924
1925	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1925
1926	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1926
1927	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1927
1928	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7857730.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1928
1929	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2773378.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1929
1930	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1930
1931	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1931
1932	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1932

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1934	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1934
1935	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1935
1936	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1936
1937	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1937
1938	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12395930.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1938
1939	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3001032.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1939
1940	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1940
1941	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1941
1942	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1942
1944	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1944
1945	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1945
1946	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1946
1947	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1947
1948	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17893609.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1948
1949	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3141898.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1949
1950	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1950
1951	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1951
1952	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1952
1954	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1954
1955	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1955
1956	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1956
1957	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1957
1958	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	24548518.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1958
1959	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3248738.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1959
1960	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1960
1961	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1961
1962	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1962
1964	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1964
1965	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1965
1966	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1966
1967	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1967
1968	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	32237788.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1968
1969	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3262017.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1969
1970	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1970
1971	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1971
1972	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1972
1974	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1974
1975	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1975
1976	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1976

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1977	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1977
1978	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	40961420.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1978
1979	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3181733.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1979
1980	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1980
1981	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1981
1982	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1982
1984	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1984
1985	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1985
1986	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1986
1987	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1987
1988	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50719412.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1988
1989	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3007887.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1989
1990	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1990
1991	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1991
1992	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1992
1994	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1994
1995	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1995
1996	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1996
1997	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1997
1998	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	61511765.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1998
1999	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2740478.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT1999
2000	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2000
2001	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2001
2002	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2002
2004	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2004
2005	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2005
2006	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2006
2007	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2007
2008	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	73958492.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2008
2009	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2399624.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2009
2010	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2010
2011	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2011
2012	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2012
2014	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2014
2015	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2015
2016	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2016
2017	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2017
2018	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	87550777.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2018
2019	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1955149.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2019

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2020	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2020
2021	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2021
2022	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2022
2024	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2024
2025	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2025
2026	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2026
2027	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2027
2028	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	102288621.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2028
2029	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1407053.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2029
2030	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2030
2031	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2031
2032	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2032
2034	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2034
2035	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2035
2036	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2036
2037	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2037
2038	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	118172024.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2038
2039	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	755337.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2039
2040	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2040
2041	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2041
2042	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2042
2044	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2044
2045	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2045
2046	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2046
2047	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2047
2048	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	135200986.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2048
2049	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2049
2050	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2050
2051	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2051
2052	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2052
2054	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2054
2055	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2055
2056	7-SoCal_PowerPeakerBaseload (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2056
2197	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2197
2198	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2198
2199	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1569681.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2199
2200	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2200
2201	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2201
2202	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2202

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2204	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2204
2205	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2205
2206	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2206
2207	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2207
2208	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1659764.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2208
2209	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2057702.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2209
2210	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2210
2211	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2211
2212	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2212
2214	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2214
2215	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2215
2216	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2216
2217	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2217
2218	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4279008.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2218
2219	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2458935.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2219
2220	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2220
2221	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2221
2222	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2222
2224	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2224
2225	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2225
2226	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2226
2227	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2227
2228	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7857730.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2228
2229	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2773378.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2229
2230	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2230
2231	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2231
2232	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2232
2234	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2234
2235	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2235
2236	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2236
2237	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2237
2238	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12395930.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2238
2239	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3001032.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2239
2240	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2240
2241	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2241
2242	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2242
2244	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2244
2245	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2245
2246	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2246

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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2247	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2247
2248	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17893609.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2248
2249	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3141898.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2249
2250	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2250
2251	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2251
2252	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2252
2254	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2254
2255	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2255
2256	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2256
2257	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2257
2258	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	24548518.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2258
2259	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3248738.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2259
2260	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2260
2261	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2261
2262	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2262
2264	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2264
2265	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2265
2266	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2266
2267	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2267
2268	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	32237788.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2268
2269	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3262017.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2269
2270	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2270
2271	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2271
2272	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2272
2274	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2274
2275	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2275
2276	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2276
2277	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2277
2278	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	40961420.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2278
2279	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3181733.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2279
2280	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2280
2281	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2281
2282	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2282
2284	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2284
2285	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2285
2286	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2286
2287	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2287
2288	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	50719412.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2288
2289	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3007887.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2289

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2290	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2290
2291	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2291
2292	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2292
2294	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2294
2295	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2295
2296	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2296
2297	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2297
2298	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	61511765.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2298
2299	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2740478.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2299
2300	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2300
2301	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2301
2302	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2302
2304	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2304
2305	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2305
2306	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2306
2307	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2307
2308	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	73958492.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2308
2309	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2399624.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2309
2310	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2310
2311	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2311
2312	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2312
2314	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2314
2315	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2315
2316	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2316
2317	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2317
2318	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	87550777.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2318
2319	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1955149.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2319
2320	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2320
2321	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2321
2322	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2322
2324	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2324
2325	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2325
2326	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2326
2327	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2327
2328	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	102288621.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2328
2329	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1407053.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2329
2330	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2330
2331	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2331
2332	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2332

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2334	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2334
2335	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2335
2336	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2336
2337	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2337
2338	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	118172024.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2338
2339	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	755337.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2339
2340	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2340
2341	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2341
2342	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2342
2344	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2344
2345	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2345
2346	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2346
2347	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2347
2348	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	135200986.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2348
2349	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2349
2350	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2350
2351	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2351
2352	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2352
2354	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2354
2355	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2355
2356	8-SoCal_PowerPeakerBaseload (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2356
2497	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2497
2498	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2498
2499	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2552054.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2499
2500	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2500
2501	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2501
2502	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2502
2504	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2504
2505	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2505
2506	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2506
2507	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2507
2508	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2698514.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2508
2509	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3345499.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2509
2510	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2510
2511	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2511
2512	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2512
2514	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2514
2515	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2515
2516	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2516

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2517	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2517
2518	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6956989.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2518
2519	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3997839.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2519
2520	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2520
2521	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2521
2522	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2522
2524	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2524
2525	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2525
2526	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2526
2527	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2527
2528	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12775425.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2528
2529	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4509074.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2529
2530	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2530
2531	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2531
2532	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2532
2534	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2534
2535	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2535
2536	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2536
2537	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2537
2538	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	20153820.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2538
2539	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4879204.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2539
2540	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2540
2541	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2541
2542	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2542
2544	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2544
2545	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2545
2546	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2546
2547	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2547
2548	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29092176.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2548
2549	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5108228.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2549
2550	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2550
2551	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2551
2552	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2552
2554	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2554
2555	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2555
2556	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2556
2557	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2557
2558	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39912005.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2558
2559	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5281935.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2559

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2560	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2560
2561	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2561
2562	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2562
2564	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2564
2565	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2565
2566	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2566
2567	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2567
2568	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	52413541.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2568
2569	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5303524.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2569
2570	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2570
2571	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2571
2572	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2572
2574	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2574
2575	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2575
2576	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2576
2577	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2577
2578	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	66596785.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2578
2579	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5172995.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2579
2580	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2580
2581	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2581
2582	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2582
2584	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2584
2585	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2585
2586	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2586
2587	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2587
2588	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	82461736.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2588
2589	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4890348.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2589
2590	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2590
2591	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2591
2592	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2592
2594	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2594
2595	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2595
2596	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2596
2597	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2597
2598	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	100008394.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2598
2599	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4455584.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2599
2600	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2600
2601	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2601
2602	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2602

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2604	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2604
2605	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2605
2606	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2606
2607	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2607
2608	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	120244801.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2608
2609	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3901409.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2609
2610	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2610
2611	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2611
2612	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2612
2614	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2614
2615	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2615
2616	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2616
2617	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2617
2618	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	142343706.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2618
2619	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3178763.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2619
2620	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2620
2621	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2621
2622	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2622
2624	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2624
2625	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2625
2626	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2626
2627	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2627
2628	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	166305107.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2628
2629	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2287646.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2629
2630	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2630
2631	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2631
2632	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2632
2634	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2634
2635	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2635
2636	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2636
2637	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2637
2638	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	192129007.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2638
2639	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1228058.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2639
2640	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2640
2641	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2641
2642	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2642
2644	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2644
2645	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2645
2646	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2646

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2647	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2647
2648	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	219815403.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2648
2649	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2649
2650	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2650
2651	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2651
2652	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2652
2654	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2654
2655	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2655
2656	9-SoCal_PowerPeakerBaseload (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2656
2797	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2797
2798	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2798
2799	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2552054.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2799
2800	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2800
2801	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2801
2802	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2802
2804	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2804
2805	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2805
2806	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2806
2807	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2807
2808	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2698514.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2808
2809	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3345499.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2809
2810	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2810
2811	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2811
2812	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2812
2814	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2814
2815	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2815
2816	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2816
2817	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2817
2818	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6956989.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2818
2819	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3997839.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2819
2820	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2820
2821	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2821
2822	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2822
2824	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2824
2825	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2825
2826	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2826
2827	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2827
2828	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12775425.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2828
2829	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4509074.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2829

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2830	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2830
2831	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2831
2832	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2832
2834	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2834
2835	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2835
2836	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2836
2837	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2837
2838	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	20153820.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2838
2839	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4879204.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2839
2840	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2840
2841	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2841
2842	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2842
2844	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2844
2845	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2845
2846	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2846
2847	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2847
2848	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29092176.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2848
2849	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5108228.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2849
2850	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2850
2851	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2851
2852	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2852
2854	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2854
2855	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2855
2856	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2856
2857	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2857
2858	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39912005.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2858
2859	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5281935.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2859
2860	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2860
2861	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2861
2862	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2862
2864	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2864
2865	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2865
2866	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2866
2867	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2867
2868	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	52413541.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2868
2869	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5303524.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2869
2870	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2870
2871	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2871
2872	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2872

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2874	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2874
2875	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2875
2876	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2876
2877	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2877
2878	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	66596785.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2878
2879	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5172995.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2879
2880	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2880
2881	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2881
2882	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2882
2884	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2884
2885	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2885
2886	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2886
2887	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2887
2888	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	82461736.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2888
2889	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4890348.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2889
2890	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2890
2891	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2891
2892	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2892
2894	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2894
2895	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2895
2896	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2896
2897	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2897
2898	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	100008394.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2898
2899	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4455584.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2899
2900	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2900
2901	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2901
2902	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2902
2904	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2904
2905	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2905
2906	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2906
2907	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2907
2908	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	120244801.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2908
2909	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3901409.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2909
2910	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2910
2911	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2911
2912	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2912
2914	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2914
2915	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2915
2916	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2916

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2917	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2917
2918	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	142343706.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2918
2919	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3178763.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2919
2920	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2920
2921	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2921
2922	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2922
2924	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2924
2925	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2925
2926	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2926
2927	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2927
2928	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	166305107.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2928
2929	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2287646.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2929
2930	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2930
2931	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2931
2932	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2932
2934	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2934
2935	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2935
2936	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2936
2937	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2937
2938	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	192129007.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2938
2939	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1228058.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2939
2940	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2940
2941	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2941
2942	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2942
2944	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2944
2945	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2945
2946	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2946
2947	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2947
2948	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	219815403.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2948
2949	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2949
2950	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2950
2951	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2951
2952	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2952
2954	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2954
2955	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2955
2956	10-SoCal_PowerPeakerBaseload (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT2956
3097	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3097
3098	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3098
3099	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2552054.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3099

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3100	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3100
3101	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3101
3102	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3102
3104	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3104
3105	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3105
3106	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3106
3107	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3107
3108	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2698514.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3108
3109	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3345499.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3109
3110	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3110
3111	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3111
3112	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3112
3114	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3114
3115	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3115
3116	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3116
3117	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3117
3118	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6956989.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3118
3119	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3997839.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3119
3120	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3120
3121	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3121
3122	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3122
3124	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3124
3125	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3125
3126	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3126
3127	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3127
3128	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12775425.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3128
3129	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4509074.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3129
3130	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3130
3131	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3131
3132	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3132
3134	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3134
3135	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3135
3136	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3136
3137	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3137
3138	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	20153820.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3138
3139	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4879204.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3139
3140	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3140
3141	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3141
3142	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3142

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3144	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3144
3145	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3145
3146	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3146
3147	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3147
3148	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29092176.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3148
3149	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5108228.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3149
3150	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3150
3151	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3151
3152	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3152
3154	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3154
3155	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3155
3156	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3156
3157	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3157
3158	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39912005.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3158
3159	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5281935.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3159
3160	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3160
3161	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3161
3162	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3162
3164	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3164
3165	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3165
3166	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3166
3167	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3167
3168	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	52413541.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3168
3169	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5303524.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3169
3170	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3170
3171	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3171
3172	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3172
3174	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3174
3175	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3175
3176	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3176
3177	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3177
3178	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	66596785.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3178
3179	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5172995.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3179
3180	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3180
3181	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3181
3182	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3182
3184	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3184
3185	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3185
3186	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3186

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3187	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3187
3188	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	82461736.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3188
3189	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4890348.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3189
3190	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3190
3191	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3191
3192	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3192
3194	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3194
3195	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3195
3196	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3196
3197	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3197
3198	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	100008394.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3198
3199	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4455584.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3199
3200	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3200
3201	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3201
3202	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3202
3204	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3204
3205	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3205
3206	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3206
3207	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3207
3208	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	120244801.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3208
3209	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3901409.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3209
3210	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3210
3211	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3211
3212	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3212
3214	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3214
3215	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3215
3216	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3216
3217	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3217
3218	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	142343706.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3218
3219	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3178763.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3219
3220	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3220
3221	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3221
3222	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3222
3224	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3224
3225	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3225
3226	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3226
3227	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3227
3228	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	166305107.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3228
3229	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2287646.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3229

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3230	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3230
3231	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3231
3232	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3232
3234	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3234
3235	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3235
3236	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3236
3237	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3237
3238	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	192129007.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3238
3239	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1228058.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3239
3240	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3240
3241	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3241
3242	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3242
3244	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3244
3245	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3245
3246	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3246
3247	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3247
3248	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	219815403.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3248
3249	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3249
3250	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3250
3251	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3251
3252	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3252
3254	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3254
3255	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3255
3256	11-SoCal_PowerPeakerBaseload (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3256
3397	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3397
3398	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3398
3399	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2552054.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3399
3400	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3400
3401	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3401
3402	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3402
3404	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3404
3405	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3405
3406	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3406
3407	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3407
3408	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2698514.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3408
3409	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3345499.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3409
3410	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3410
3411	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3411
3412	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3412

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3414	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3414
3415	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3415
3416	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3416
3417	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3417
3418	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6956989.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3418
3419	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3997839.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3419
3420	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3420
3421	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3421
3422	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3422
3424	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3424
3425	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3425
3426	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3426
3427	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3427
3428	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12775425.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3428
3429	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4509074.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3429
3430	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3430
3431	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3431
3432	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3432
3434	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3434
3435	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3435
3436	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3436
3437	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3437
3438	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	20153820.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3438
3439	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4879204.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3439
3440	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3440
3441	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3441
3442	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3442
3444	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3444
3445	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3445
3446	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3446
3447	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3447
3448	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29092176.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3448
3449	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5108228.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3449
3450	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3450
3451	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3451
3452	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3452
3454	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3454
3455	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3455
3456	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3456

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3457	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3457
3458	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39912005.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3458
3459	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5281935.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3459
3460	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3460
3461	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3461
3462	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3462
3464	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3464
3465	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3465
3466	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3466
3467	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3467
3468	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	52413541.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3468
3469	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5303524.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3469
3470	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3470
3471	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3471
3472	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3472
3474	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3474
3475	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3475
3476	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3476
3477	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3477
3478	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	66596785.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3478
3479	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	5172995.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3479
3480	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3480
3481	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3481
3482	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3482
3484	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3484
3485	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3485
3486	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3486
3487	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3487
3488	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	82461736.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3488
3489	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4890348.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3489
3490	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3490
3491	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3491
3492	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3492
3494	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3494
3495	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3495
3496	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3496
3497	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3497
3498	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	100008394.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3498
3499	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	4455584.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3499

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3500	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3500
3501	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3501
3502	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3502
3504	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3504
3505	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3505
3506	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3506
3507	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3507
3508	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	120244801.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3508
3509	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3901409.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3509
3510	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3510
3511	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3511
3512	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3512
3514	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3514
3515	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3515
3516	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3516
3517	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3517
3518	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	142343706.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3518
3519	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	3178763.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3519
3520	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3520
3521	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3521
3522	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3522
3524	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3524
3525	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3525
3526	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3526
3527	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3527
3528	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	166305107.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3528
3529	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	2287646.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3529
3530	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3530
3531	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3531
3532	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3532
3534	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3534
3535	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3535
3536	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3536
3537	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3537
3538	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	192129007.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3538
3539	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	1228058.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3539
3540	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3540
3541	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3541
3542	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3542

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3544	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3544
3545	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3545
3546	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3546
3547	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	94.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3547
3548	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	219815403.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3548
3549	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3549
3550	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	26.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3550
3551	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	251525106.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3551
3552	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3552
3554	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3554
3555	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3555
3556	12-SoCal_PowerPeakerBaseload (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3556
3697	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3697
3698	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3698
3699	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	103286.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3699
3700	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3700
3701	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3701
3702	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3702
3704	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3704
3705	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3705
3706	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3706
3707	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3707
3708	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	207592.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3708
3709	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	135398.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3709
3710	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3710
3711	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3711
3712	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3712
3714	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3714
3715	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3715
3716	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3716
3717	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3717
3718	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	535189.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3718
3719	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	161799.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3719
3720	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3720
3721	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3721
3722	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3722
3724	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3724
3725	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3725
3726	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3726

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3727	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3727
3728	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	982791.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3728
3729	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	182490.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3729
3730	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3730
3731	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3731
3732	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3732
3734	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3734
3735	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3735
3736	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3736
3737	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3737
3738	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1550399.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3738
3739	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197470.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3739
3740	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3740
3741	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3741
3742	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3742
3744	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3744
3745	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3745
3746	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3746
3747	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3747
3748	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2238011.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3748
3749	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	206739.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3749
3750	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3750
3751	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3751
3752	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3752
3754	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3754
3755	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3755
3756	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3756
3757	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3757
3758	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3070363.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3758
3759	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	213769.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3759
3760	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3760
3761	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3761
3762	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3762
3764	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3764
3765	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3765
3766	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3766
3767	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3767
3768	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4032085.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3768
3769	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	214643.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3769

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3770	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3770
3771	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3771
3772	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3772
3774	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3774
3775	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3775
3776	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3776
3777	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3777
3778	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5123178.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3778
3779	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	209360.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3779
3780	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3780
3781	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3781
3782	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3782
3784	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3784
3785	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3785
3786	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3786
3787	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3787
3788	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6343642.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3788
3789	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197921.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3789
3790	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3790
3791	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3791
3792	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3792
3794	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3794
3795	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3795
3796	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3796
3797	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3797
3798	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7693476.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3798
3799	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	180325.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3799
3800	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3800
3801	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3801
3802	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3802
3804	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3804
3805	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3805
3806	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3806
3807	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3807
3808	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9250229.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3808
3809	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	157897.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3809
3810	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3810
3811	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3811
3812	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3812

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3814	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3814
3815	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3815
3816	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3816
3817	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3817
3818	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10950260.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3818
3819	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	128650.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3819
3820	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3820
3821	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3821
3822	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3822
3824	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3824
3825	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3825
3826	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3826
3827	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3827
3828	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12793570.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3828
3829	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	92585.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3829
3830	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3830
3831	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3831
3832	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3832
3834	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3834
3835	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3835
3836	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3836
3837	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3837
3838	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14780159.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3838
3839	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	49701.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3839
3840	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3840
3841	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3841
3842	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3842
3844	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3844
3845	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3845
3846	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3846
3847	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3847
3848	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	16910027.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3848
3849	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3849
3850	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3850
3851	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3851
3852	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3852
3854	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3854
3855	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3855
3856	13-SoCal_PowerCogeneration (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3856

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3997	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3997
3998	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3998
3999	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	103286.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT3999
4000	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4000
4001	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4001
4002	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4002
4004	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4004
4005	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4005
4006	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4006
4007	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4007
4008	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	207592.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4008
4009	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	135398.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4009
4010	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4010
4011	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4011
4012	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4012
4014	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4014
4015	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4015
4016	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4016
4017	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4017
4018	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	535189.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4018
4019	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	161799.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4019
4020	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4020
4021	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4021
4022	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4022
4024	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4024
4025	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4025
4026	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4026
4027	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4027
4028	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	982791.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4028
4029	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	182490.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4029
4030	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4030
4031	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4031
4032	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4032
4034	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4034
4035	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4035
4036	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4036
4037	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4037
4038	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1550399.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4038
4039	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197470.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4039

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4040	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4040
4041	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4041
4042	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4042
4044	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4044
4045	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4045
4046	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4046
4047	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4047
4048	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2238011.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4048
4049	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	206739.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4049
4050	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4050
4051	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4051
4052	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4052
4054	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4054
4055	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4055
4056	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4056
4057	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4057
4058	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3070363.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4058
4059	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	213769.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4059
4060	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4060
4061	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4061
4062	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4062
4064	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4064
4065	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4065
4066	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4066
4067	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4067
4068	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4032085.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4068
4069	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	214643.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4069
4070	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4070
4071	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4071
4072	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4072
4074	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4074
4075	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4075
4076	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4076
4077	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4077
4078	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5123178.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4078
4079	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	209360.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4079
4080	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4080
4081	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4081
4082	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4082

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4084	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4084
4085	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4085
4086	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4086
4087	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4087
4088	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6343642.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4088
4089	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197921.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4089
4090	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4090
4091	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4091
4092	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4092
4094	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4094
4095	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4095
4096	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4096
4097	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4097
4098	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7693476.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4098
4099	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	180325.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4099
4100	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4100
4101	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4101
4102	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4102
4104	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4104
4105	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4105
4106	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4106
4107	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4107
4108	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9250229.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4108
4109	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	157897.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4109
4110	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4110
4111	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4111
4112	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4112
4114	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4114
4115	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4115
4116	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4116
4117	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4117
4118	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10950260.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4118
4119	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	128650.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4119
4120	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4120
4121	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4121
4122	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4122
4124	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4124
4125	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4125
4126	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4126

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4127	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4127
4128	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12793570.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4128
4129	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	92585.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4129
4130	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4130
4131	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4131
4132	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4132
4134	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4134
4135	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4135
4136	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4136
4137	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4137
4138	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14780159.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4138
4139	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	49701.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4139
4140	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4140
4141	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4141
4142	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4142
4144	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4144
4145	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4145
4146	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4146
4147	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4147
4148	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	16910027.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4148
4149	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4149
4150	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4150
4151	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4151
4152	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4152
4154	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4154
4155	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4155
4156	14-SoCal_PowerCogeneration (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4156
4297	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4297
4298	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4298
4299	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	103286.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4299
4300	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4300
4301	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4301
4302	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4302
4304	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4304
4305	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4305
4306	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4306
4307	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4307
4308	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	207592.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4308
4309	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	135398.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4309

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4310	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4310
4311	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4311
4312	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4312
4314	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4314
4315	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4315
4316	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4316
4317	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4317
4318	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	535189.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4318
4319	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	161799.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4319
4320	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4320
4321	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4321
4322	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4322
4324	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4324
4325	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4325
4326	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4326
4327	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4327
4328	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	982791.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4328
4329	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	182490.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4329
4330	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4330
4331	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4331
4332	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4332
4334	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4334
4335	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4335
4336	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4336
4337	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4337
4338	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1550399.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4338
4339	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197470.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4339
4340	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4340
4341	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4341
4342	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4342
4344	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4344
4345	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4345
4346	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4346
4347	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4347
4348	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2238011.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4348
4349	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	206739.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4349
4350	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4350
4351	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4351
4352	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4352

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4354	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4354
4355	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4355
4356	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4356
4357	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4357
4358	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3070363.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4358
4359	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	213769.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4359
4360	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4360
4361	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4361
4362	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4362
4364	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4364
4365	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4365
4366	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4366
4367	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4367
4368	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4032085.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4368
4369	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	214643.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4369
4370	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4370
4371	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4371
4372	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4372
4374	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4374
4375	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4375
4376	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4376
4377	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4377
4378	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5123178.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4378
4379	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	209360.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4379
4380	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4380
4381	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4381
4382	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4382
4384	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4384
4385	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4385
4386	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4386
4387	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4387
4388	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6343642.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4388
4389	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197921.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4389
4390	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4390
4391	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4391
4392	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4392
4394	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4394
4395	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4395
4396	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4396

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4397	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4397
4398	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7693476.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4398
4399	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	180325.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4399
4400	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4400
4401	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4401
4402	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4402
4404	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4404
4405	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4405
4406	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4406
4407	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4407
4408	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9250229.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4408
4409	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	157897.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4409
4410	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4410
4411	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4411
4412	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4412
4414	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4414
4415	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4415
4416	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4416
4417	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4417
4418	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10950260.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4418
4419	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	128650.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4419
4420	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4420
4421	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4421
4422	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4422
4424	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4424
4425	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4425
4426	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4426
4427	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4427
4428	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12793570.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4428
4429	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	92585.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4429
4430	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4430
4431	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4431
4432	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4432
4434	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4434
4435	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4435
4436	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4436
4437	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4437
4438	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14780159.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4438
4439	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	49701.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4439

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4440	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4440
4441	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4441
4442	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4442
4444	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4444
4445	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4445
4446	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4446
4447	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4447
4448	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	16910027.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4448
4449	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4449
4450	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4450
4451	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4451
4452	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4452
4454	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4454
4455	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4455
4456	15-SoCal_PowerCogeneration (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4456
4597	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4597
4598	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4598
4599	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	103286.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4599
4600	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4600
4601	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4601
4602	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4602
4604	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4604
4605	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4605
4606	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4606
4607	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4607
4608	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	207592.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4608
4609	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	135398.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4609
4610	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4610
4611	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4611
4612	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4612
4614	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4614
4615	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4615
4616	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4616
4617	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4617
4618	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	535189.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4618
4619	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	161799.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4619
4620	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4620
4621	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4621
4622	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4622

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4624	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4624
4625	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4625
4626	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4626
4627	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4627
4628	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	982791.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4628
4629	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	182490.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4629
4630	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4630
4631	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4631
4632	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4632
4634	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4634
4635	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4635
4636	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4636
4637	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4637
4638	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1550399.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4638
4639	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197470.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4639
4640	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4640
4641	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4641
4642	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4642
4644	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4644
4645	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4645
4646	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4646
4647	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4647
4648	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2238011.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4648
4649	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	206739.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4649
4650	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4650
4651	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4651
4652	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4652
4654	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4654
4655	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4655
4656	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4656
4657	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4657
4658	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3070363.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4658
4659	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	213769.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4659
4660	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4660
4661	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4661
4662	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4662
4664	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4664
4665	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4665
4666	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4666

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4667	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4667
4668	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	4032085.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4668
4669	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	214643.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4669
4670	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4670
4671	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4671
4672	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4672
4674	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4674
4675	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4675
4676	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4676
4677	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4677
4678	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5123178.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4678
4679	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	209360.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4679
4680	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4680
4681	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4681
4682	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4682
4684	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4684
4685	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4685
4686	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4686
4687	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4687
4688	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	6343642.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4688
4689	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	197921.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4689
4690	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4690
4691	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4691
4692	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4692
4694	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4694
4695	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4695
4696	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4696
4697	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4697
4698	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7693476.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4698
4699	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	180325.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4699
4700	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4700
4701	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4701
4702	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4702
4704	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4704
4705	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4705
4706	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4706
4707	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4707
4708	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9250229.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4708
4709	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	157897.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4709

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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4710	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4710
4711	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4711
4712	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4712
4714	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4714
4715	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4715
4716	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4716
4717	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4717
4718	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	10950260.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4718
4719	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	128650.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4719
4720	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4720
4721	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4721
4722	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4722
4724	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4724
4725	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4725
4726	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4726
4727	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4727
4728	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	12793570.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4728
4729	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	92585.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4729
4730	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4730
4731	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4731
4732	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4732
4734	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4734
4735	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4735
4736	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4736
4737	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4737
4738	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14780159.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4738
4739	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	49701.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4739
4740	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4740
4741	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4741
4742	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4742
4744	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4744
4745	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4745
4746	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4746
4747	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4747
4748	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	16910027.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4748
4749	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4749
4750	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4750
4751	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4751
4752	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4752

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4754	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4754
4755	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4755
4756	16-SoCal_PowerCogeneration (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4756
4897	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4897
4898	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4898
4899	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	239988.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4899
4900	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4900
4901	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4901
4902	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4902
4904	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4904
4905	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4905
4906	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4906
4907	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4907
4908	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	482345.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4908
4909	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	314601.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4909
4910	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4910
4911	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4911
4912	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4912
4914	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4914
4915	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4915
4916	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4916
4917	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4917
4918	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1243525.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4918
4919	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	375945.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4919
4920	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4920
4921	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4921
4922	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4922
4924	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4924
4925	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4925
4926	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4926
4927	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4927
4928	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2283540.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4928
4929	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	424020.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4929
4930	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4930
4931	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4931
4932	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4932
4934	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4934
4935	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4935
4936	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4936

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4937	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4937
4938	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3602389.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4938
4939	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	458826.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4939
4940	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4940
4941	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4941
4942	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4942
4944	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4944
4945	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4945
4946	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4946
4947	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4947
4948	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5200073.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4948
4949	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	480363.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4949
4950	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4950
4951	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4951
4952	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4952
4954	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4954
4955	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4955
4956	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4956
4957	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4957
4958	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7134061.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4958
4959	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	496698.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4959
4960	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4960
4961	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4961
4962	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4962
4964	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4964
4965	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4965
4966	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4966
4967	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4967
4968	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9368645.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4968
4969	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	498728.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4969
4970	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4970
4971	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4971
4972	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4972
4974	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4974
4975	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4975
4976	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4976
4977	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4977
4978	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11903825.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4978
4979	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486454.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4979

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4980	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4980
4981	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4981
4982	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4982
4984	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4984
4985	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4985
4986	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4986
4987	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4987
4988	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14739602.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4988
4989	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	459874.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4989
4990	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4990
4991	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4991
4992	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4992
4994	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4994
4995	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4995
4996	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4996
4997	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4997
4998	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17875975.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4998
4999	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	418990.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT4999
5000	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5000
5001	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5001
5002	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5002
5004	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5004
5005	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5005
5006	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5006
5007	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5007
5008	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21493126.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5008
5009	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	366877.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5009
5010	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5010
5011	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5011
5012	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5012
5014	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5014
5015	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5015
5016	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5016
5017	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5017
5018	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	25443189.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5018
5019	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	298922.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5019
5020	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5020
5021	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5021
5022	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5022

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5024	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5024
5025	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5025
5026	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5026
5027	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5027
5028	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29726164.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5028
5029	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	215123.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5029
5030	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5030
5031	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5031
5032	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5032
5034	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5034
5035	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5035
5036	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5036
5037	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5037
5038	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34342051.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5038
5039	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	115483.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5039
5040	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5040
5041	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5041
5042	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5042
5044	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5044
5045	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5045
5046	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5046
5047	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5047
5048	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39290849.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5048
5049	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5049
5050	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5050
5051	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5051
5052	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5052
5054	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5054
5055	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5055
5056	17-SoCal_PowerCogeneration (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5056
5197	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5197
5198	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5198
5199	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	239988.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5199
5200	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5200
5201	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5201
5202	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5202
5204	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5204
5205	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5205
5206	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5206

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	Value	Reference
5207	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5207
5208	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	482345.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5208
5209	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	314601.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5209
5210	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5210
5211	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5211
5212	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5212
5214	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5214
5215	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5215
5216	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5216
5217	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5217
5218	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1243525.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5218
5219	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	375945.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5219
5220	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5220
5221	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5221
5222	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5222
5224	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5224
5225	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5225
5226	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5226
5227	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5227
5228	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2283540.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5228
5229	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	424020.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5229
5230	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5230
5231	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5231
5232	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5232
5234	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5234
5235	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5235
5236	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5236
5237	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5237
5238	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3602389.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5238
5239	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	458826.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5239
5240	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5240
5241	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5241
5242	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5242
5244	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5244
5245	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5245
5246	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5246
5247	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5247
5248	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5200073.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5248
5249	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	480363.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5249

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5250	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5250
5251	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5251
5252	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5252
5254	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5254
5255	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5255
5256	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5256
5257	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5257
5258	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7134061.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5258
5259	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	496698.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5259
5260	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5260
5261	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5261
5262	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5262
5264	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5264
5265	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5265
5266	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5266
5267	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5267
5268	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9368645.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5268
5269	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	498728.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5269
5270	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5270
5271	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5271
5272	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5272
5274	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5274
5275	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5275
5276	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5276
5277	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5277
5278	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11903825.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5278
5279	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486454.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5279
5280	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5280
5281	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5281
5282	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5282
5284	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5284
5285	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5285
5286	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5286
5287	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5287
5288	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14739602.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5288
5289	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	459874.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5289
5290	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5290
5291	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5291
5292	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5292

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5294	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5294
5295	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5295
5296	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5296
5297	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5297
5298	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17875975.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5298
5299	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	418990.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5299
5300	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5300
5301	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5301
5302	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5302
5304	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5304
5305	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5305
5306	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5306
5307	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5307
5308	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21493126.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5308
5309	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	366877.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5309
5310	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5310
5311	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5311
5312	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5312
5314	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5314
5315	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5315
5316	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5316
5317	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5317
5318	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	25443189.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5318
5319	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	298922.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5319
5320	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5320
5321	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5321
5322	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5322
5324	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5324
5325	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5325
5326	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5326
5327	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5327
5328	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29726164.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5328
5329	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	215123.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5329
5330	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5330
5331	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5331
5332	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5332
5334	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5334
5335	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5335
5336	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5336

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5337	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5337
5338	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34342051.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5338
5339	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	115483.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5339
5340	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5340
5341	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5341
5342	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5342
5344	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5344
5345	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5345
5346	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5346
5347	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5347
5348	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39290849.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5348
5349	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5349
5350	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5350
5351	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5351
5352	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5352
5354	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5354
5355	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5355
5356	18-SoCal_PowerCogeneration (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5356
5497	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5497
5498	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5498
5499	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	239988.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5499
5500	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5500
5501	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5501
5502	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5502
5504	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5504
5505	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5505
5506	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5506
5507	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5507
5508	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	482345.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5508
5509	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	314601.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5509
5510	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5510
5511	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5511
5512	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5512
5514	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5514
5515	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5515
5516	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5516
5517	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5517
5518	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1243525.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5518
5519	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	375945.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5519

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5520	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5520
5521	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5521
5522	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5522
5524	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5524
5525	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5525
5526	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5526
5527	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5527
5528	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2283540.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5528
5529	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	424020.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5529
5530	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5530
5531	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5531
5532	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5532
5534	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5534
5535	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5535
5536	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5536
5537	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5537
5538	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3602389.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5538
5539	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	458826.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5539
5540	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5540
5541	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5541
5542	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5542
5544	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5544
5545	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5545
5546	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5546
5547	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5547
5548	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5200073.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5548
5549	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	480363.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5549
5550	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5550
5551	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5551
5552	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5552
5554	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5554
5555	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5555
5556	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5556
5557	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5557
5558	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7134061.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5558
5559	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	496698.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5559
5560	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5560
5561	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5561
5562	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5562

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5564	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5564
5565	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5565
5566	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5566
5567	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5567
5568	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9368645.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5568
5569	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	498728.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5569
5570	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5570
5571	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5571
5572	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5572
5574	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5574
5575	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5575
5576	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5576
5577	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5577
5578	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11903825.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5578
5579	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486454.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5579
5580	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5580
5581	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5581
5582	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5582
5584	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5584
5585	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5585
5586	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5586
5587	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5587
5588	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14739602.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5588
5589	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	459874.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5589
5590	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5590
5591	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5591
5592	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5592
5594	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5594
5595	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5595
5596	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5596
5597	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5597
5598	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17875975.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5598
5599	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	418990.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5599
5600	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5600
5601	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5601
5602	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5602
5604	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5604
5605	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5605
5606	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5606

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5607	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5607
5608	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21493126.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5608
5609	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	366877.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5609
5610	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5610
5611	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5611
5612	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5612
5614	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5614
5615	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5615
5616	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5616
5617	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5617
5618	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	25443189.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5618
5619	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	298922.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5619
5620	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5620
5621	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5621
5622	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5622
5624	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5624
5625	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5625
5626	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5626
5627	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5627
5628	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29726164.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5628
5629	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	215123.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5629
5630	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5630
5631	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5631
5632	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5632
5634	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5634
5635	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5635
5636	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5636
5637	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5637
5638	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34342051.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5638
5639	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	115483.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5639
5640	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5640
5641	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5641
5642	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5642
5644	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5644
5645	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5645
5646	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5646
5647	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5647
5648	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39290849.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5648
5649	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5649

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
5650	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5650
5651	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5651
5652	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5652
5654	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5654
5655	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5655
5656	19-SoCal_PowerCogeneration (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5656
5797	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5797
5798	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5798
5799	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	239988.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5799
5800	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5800
5801	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5801
5802	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5802
5804	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5804
5805	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5805
5806	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5806
5807	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5807
5808	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	482345.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5808
5809	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	314601.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5809
5810	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5810
5811	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5811
5812	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5812
5814	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5814
5815	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5815
5816	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5816
5817	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5817
5818	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	1243525.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5818
5819	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	375945.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5819
5820	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5820
5821	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5821
5822	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5822
5824	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5824
5825	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5825
5826	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5826
5827	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5827
5828	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2283540.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5828
5829	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	424020.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5829
5830	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5830
5831	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5831
5832	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5832

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5834	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5834
5835	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5835
5836	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5836
5837	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5837
5838	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3602389.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5838
5839	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	458826.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5839
5840	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5840
5841	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5841
5842	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5842
5844	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5844
5845	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5845
5846	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5846
5847	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5847
5848	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5200073.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5848
5849	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	480363.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5849
5850	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5850
5851	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5851
5852	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5852
5854	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5854
5855	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5855
5856	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5856
5857	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5857
5858	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	7134061.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5858
5859	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	496698.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5859
5860	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5860
5861	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5861
5862	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5862
5864	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5864
5865	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5865
5866	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5866
5867	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5867
5868	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	9368645.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5868
5869	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	498728.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5869
5870	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5870
5871	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5871
5872	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5872
5874	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5874
5875	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5875
5876	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5876

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5877	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5877
5878	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11903825.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5878
5879	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486454.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5879
5880	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5880
5881	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5881
5882	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5882
5884	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5884
5885	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5885
5886	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5886
5887	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5887
5888	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	14739602.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5888
5889	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	459874.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5889
5890	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5890
5891	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5891
5892	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5892
5894	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5894
5895	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5895
5896	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5896
5897	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5897
5898	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	17875975.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5898
5899	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	418990.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5899
5900	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5900
5901	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5901
5902	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5902
5904	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5904
5905	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5905
5906	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5906
5907	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5907
5908	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	21493126.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5908
5909	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	366877.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5909
5910	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5910
5911	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5911
5912	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5912
5914	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5914
5915	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5915
5916	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5916
5917	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5917
5918	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	25443189.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5918
5919	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	298922.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5919

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
5920	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5920
5921	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5921
5922	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5922
5924	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5924
5925	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5925
5926	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5926
5927	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5927
5928	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29726164.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5928
5929	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	215123.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5929
5930	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5930
5931	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5931
5932	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5932
5934	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5934
5935	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5935
5936	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5936
5937	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5937
5938	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34342051.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5938
5939	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	115483.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5939
5940	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5940
5941	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5941
5942	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5942
5944	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5944
5945	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5945
5946	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5946
5947	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5947
5948	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	39290849.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5948
5949	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5949
5950	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5950
5951	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5951
5952	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5952
5954	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5954
5955	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5955
5956	20-SoCal_PowerCogeneration (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT5956
6097	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6097
6098	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6098
6099	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	390182.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6099
6100	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6100
6101	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6101
6102	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6102

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6104	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6104
6105	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6105
6106	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6106
6107	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6107
6108	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	784217.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6108
6109	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	511492.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6109
6110	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6110
6111	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6111
6112	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6112
6114	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6114
6115	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6115
6116	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6116
6117	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6117
6118	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2021775.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6118
6119	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	611228.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6119
6120	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6120
6121	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6121
6122	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6122
6124	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6124
6125	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6125
6126	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6126
6127	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6127
6128	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3712674.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6128
6129	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	689390.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6129
6130	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6130
6131	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6131
6132	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6132
6134	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6134
6135	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6135
6136	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6136
6137	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6137
6138	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5856915.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6138
6139	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	745979.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6139
6140	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6140
6141	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6141
6142	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6142
6144	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6144
6145	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6145
6146	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6146

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6147	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6147
6148	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	8454496.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6148
6149	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	780995.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6149
6150	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6150
6151	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6151
6152	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6152
6154	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6154
6155	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6155
6156	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6156
6157	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6157
6158	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11598854.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6158
6159	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	807553.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6159
6160	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6160
6161	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6161
6162	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6162
6164	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6164
6165	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6165
6166	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6166
6167	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6167
6168	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	15231934.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6168
6169	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	810854.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6169
6170	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6170
6171	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6171
6172	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6172
6174	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6174
6175	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6175
6176	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6176
6177	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6177
6178	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	19353736.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6178
6179	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	790897.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6179
6180	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6180
6181	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6181
6182	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6182
6184	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6184
6185	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6185
6186	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6186
6187	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6187
6188	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	23964260.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6188
6189	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	747683.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6189

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6190	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6190
6191	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6191
6192	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6192
6194	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6194
6195	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6195
6196	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6196
6197	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6197
6198	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29063506.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6198
6199	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	681212.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6199
6200	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6200
6201	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6201
6202	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6202
6204	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6204
6205	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6205
6206	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6206
6207	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6207
6208	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34944422.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6208
6209	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	596485.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6209
6210	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6210
6211	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6211
6212	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6212
6214	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6214
6215	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6215
6216	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6216
6217	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6217
6218	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	41366599.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6218
6219	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486000.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6219
6220	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6220
6221	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6221
6222	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6222
6224	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6224
6225	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6225
6226	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6226
6227	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6227
6228	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	48330038.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6228
6229	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	349757.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6229
6230	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6230
6231	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6231
6232	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6232

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6234	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6234
6235	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6235
6236	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6236
6237	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6237
6238	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	55834739.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6238
6239	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	187757.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6239
6240	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6240
6241	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6241
6242	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6242
6244	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6244
6245	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6245
6246	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6246
6247	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6247
6248	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	63880701.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6248
6249	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6249
6250	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6250
6251	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6251
6252	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6252
6254	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6254
6255	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6255
6256	21-SoCal_PowerCogeneration (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6256
6397	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6397
6398	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6398
6399	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	390182.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6399
6400	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6400
6401	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6401
6402	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6402
6404	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6404
6405	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6405
6406	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6406
6407	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6407
6408	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	784217.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6408
6409	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	511492.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6409
6410	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6410
6411	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6411
6412	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6412
6414	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6414
6415	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6415
6416	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6416

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6417	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6417
6418	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2021775.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6418
6419	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	611228.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6419
6420	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6420
6421	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6421
6422	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6422
6424	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6424
6425	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6425
6426	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6426
6427	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6427
6428	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3712674.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6428
6429	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	689390.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6429
6430	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6430
6431	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6431
6432	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6432
6434	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6434
6435	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6435
6436	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6436
6437	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6437
6438	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5856915.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6438
6439	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	745979.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6439
6440	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6440
6441	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6441
6442	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6442
6444	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6444
6445	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6445
6446	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6446
6447	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6447
6448	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	8454496.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6448
6449	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	780995.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6449
6450	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6450
6451	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6451
6452	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6452
6454	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6454
6455	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6455
6456	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6456
6457	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6457
6458	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11598854.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6458
6459	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	807553.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6459

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6460	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6460
6461	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6461
6462	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6462
6464	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6464
6465	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6465
6466	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6466
6467	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6467
6468	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	15231934.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6468
6469	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	810854.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6469
6470	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6470
6471	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6471
6472	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6472
6474	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6474
6475	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6475
6476	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6476
6477	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6477
6478	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	19353736.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6478
6479	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	790897.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6479
6480	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6480
6481	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6481
6482	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6482
6484	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6484
6485	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6485
6486	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6486
6487	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6487
6488	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	23964260.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6488
6489	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	747683.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6489
6490	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6490
6491	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6491
6492	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6492
6494	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6494
6495	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6495
6496	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6496
6497	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6497
6498	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29063506.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6498
6499	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	681212.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6499
6500	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6500
6501	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6501
6502	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6502

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
6504	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6504
6505	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6505
6506	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6506
6507	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6507
6508	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34944422.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6508
6509	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	596485.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6509
6510	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6510
6511	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6511
6512	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6512
6514	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6514
6515	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6515
6516	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6516
6517	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6517
6518	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	41366599.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6518
6519	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486000.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6519
6520	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6520
6521	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6521
6522	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6522
6524	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6524
6525	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6525
6526	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6526
6527	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6527
6528	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	48330038.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6528
6529	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	349757.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6529
6530	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6530
6531	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6531
6532	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6532
6534	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6534
6535	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6535
6536	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6536
6537	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6537
6538	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	55834739.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6538
6539	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	187757.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6539
6540	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6540
6541	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6541
6542	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6542
6544	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6544
6545	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6545
6546	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6546

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6547	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6547
6548	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	63880701.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6548
6549	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6549
6550	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6550
6551	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6551
6552	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6552
6554	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6554
6555	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6555
6556	22-SoCal_PowerCogeneration (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6556
6697	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6697
6698	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6698
6699	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	390182.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6699
6700	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6700
6701	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6701
6702	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6702
6704	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6704
6705	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6705
6706	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6706
6707	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6707
6708	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	784217.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6708
6709	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	511492.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6709
6710	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6710
6711	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6711
6712	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6712
6714	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6714
6715	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6715
6716	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6716
6717	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6717
6718	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2021775.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6718
6719	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	611228.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6719
6720	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6720
6721	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6721
6722	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6722
6724	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6724
6725	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6725
6726	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6726
6727	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6727
6728	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3712674.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6728
6729	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	689390.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6729

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6730	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6730
6731	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6731
6732	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6732
6734	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6734
6735	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6735
6736	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6736
6737	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6737
6738	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5856915.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6738
6739	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	745979.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6739
6740	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6740
6741	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6741
6742	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6742
6744	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6744
6745	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6745
6746	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6746
6747	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6747
6748	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	8454496.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6748
6749	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	780995.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6749
6750	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6750
6751	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6751
6752	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6752
6754	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6754
6755	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6755
6756	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6756
6757	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6757
6758	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11598854.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6758
6759	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	807553.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6759
6760	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6760
6761	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6761
6762	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6762
6764	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6764
6765	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6765
6766	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6766
6767	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6767
6768	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	15231934.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6768
6769	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	810854.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6769
6770	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6770
6771	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6771
6772	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6772

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6774	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6774
6775	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6775
6776	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6776
6777	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6777
6778	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	19353736.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6778
6779	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	790897.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6779
6780	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6780
6781	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6781
6782	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6782
6784	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6784
6785	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6785
6786	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6786
6787	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6787
6788	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	23964260.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6788
6789	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	747683.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6789
6790	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6790
6791	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6791
6792	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6792
6794	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6794
6795	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6795
6796	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6796
6797	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6797
6798	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29063506.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6798
6799	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	681212.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6799
6800	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6800
6801	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6801
6802	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6802
6804	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6804
6805	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6805
6806	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6806
6807	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6807
6808	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34944422.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6808
6809	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	596485.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6809
6810	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6810
6811	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6811
6812	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6812
6814	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6814
6815	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6815
6816	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6816

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6817	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6817
6818	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	41366599.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6818
6819	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486000.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6819
6820	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6820
6821	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6821
6822	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6822
6824	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6824
6825	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6825
6826	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6826
6827	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6827
6828	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	48330038.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6828
6829	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	349757.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6829
6830	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6830
6831	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6831
6832	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6832
6834	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6834
6835	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6835
6836	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6836
6837	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6837
6838	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	55834739.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6838
6839	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	187757.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6839
6840	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6840
6841	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6841
6842	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6842
6844	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6844
6845	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6845
6846	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6846
6847	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6847
6848	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	63880701.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6848
6849	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6849
6850	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6850
6851	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6851
6852	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6852
6854	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6854
6855	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6855
6856	23-SoCal_PowerCogeneration (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6856
6997	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6997
6998	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6998
6999	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	390182.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT6999

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7000	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7000
7001	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7001
7002	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7002
7004	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7004
7005	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7005
7006	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7006
7007	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7007
7008	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	784217.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7008
7009	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	511492.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7009
7010	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7010
7011	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7011
7012	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7012
7014	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7014
7015	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7015
7016	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7016
7017	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7017
7018	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	2021775.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7018
7019	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	611228.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7019
7020	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7020
7021	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7021
7022	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7022
7024	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7024
7025	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7025
7026	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7026
7027	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7027
7028	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	3712674.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7028
7029	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	689390.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7029
7030	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7030
7031	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7031
7032	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7032
7034	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7034
7035	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7035
7036	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7036
7037	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7037
7038	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	5856915.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7038
7039	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	745979.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7039
7040	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7040
7041	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7041
7042	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7042

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7044	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7044
7045	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7045
7046	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7046
7047	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7047
7048	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	8454496.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7048
7049	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	780995.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7049
7050	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7050
7051	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7051
7052	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7052
7054	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7054
7055	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7055
7056	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7056
7057	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7057
7058	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	11598854.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7058
7059	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	807553.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7059
7060	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7060
7061	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7061
7062	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7062
7064	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7064
7065	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7065
7066	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7066
7067	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7067
7068	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	15231934.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7068
7069	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	810854.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7069
7070	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7070
7071	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7071
7072	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7072
7074	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7074
7075	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7075
7076	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7076
7077	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7077
7078	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	19353736.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7078
7079	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	790897.59	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7079
7080	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7080
7081	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7081
7082	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7082
7084	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7084
7085	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7085
7086	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7086

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7087	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7087
7088	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	23964260.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7088
7089	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	747683.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7089
7090	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7090
7091	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7091
7092	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7092
7094	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7094
7095	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7095
7096	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7096
7097	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7097
7098	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	29063506.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7098
7099	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	681212.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7099
7100	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7100
7101	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7101
7102	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7102
7104	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7104
7105	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7105
7106	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7106
7107	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7107
7108	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	34944422.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7108
7109	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	596485.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7109
7110	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7110
7111	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7111
7112	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7112
7114	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7114
7115	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7115
7116	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7116
7117	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7117
7118	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	41366599.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7118
7119	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	486000.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7119
7120	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7120
7121	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7121
7122	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7122
7124	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7124
7125	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7125
7126	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7126
7127	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7127
7128	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	48330038.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7128
7129	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	349757.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7129

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "2. Data_Prep_Power" tab. The input data in this tab was processed through the function in "3.1 EQ Power GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
7130	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7130
7131	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7131
7132	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7132
7134	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7134
7135	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7135
7136	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7136
7137	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7137
7138	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	55834739.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7138
7139	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	187757.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7139
7140	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7140
7141	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7141
7142	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7142
7144	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7144
7145	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7145
7146	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7146
7147	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	99.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7147
7148	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ 100%-H2 Demand (MMBtu/yr)*	63880701.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7148
7149	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ Blend-H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7149
7150	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	17.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7150
7151	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	73095879.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7151
7152	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7152
7154	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7154
7155	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7155
7156	24-SoCal_PowerCogeneration (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, Data_Prep_Power, Cell AT7156

Sample Emission Calculation

5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral) 2035_H2-NG

10/15/2024

Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ 100%-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu) + PRJ Blend-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate (MMBtu/yr) - PRJ Overall H2 Heat Rate (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = NG CH4 EF (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Sample Emission Calculation

5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral) 2035_H2-NG

10/15/2024

BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

Sample Emission Calculation

5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral) 2035_H2-NG

10/15/2024

PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ 100%-H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ Blend-H2 Demand (MMBtu/yr) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Sample Emission Calculation

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Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Power GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	5.67	MMBtu/100-MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1347
PRJ 100%-H2 Demand	17,893,609.49	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1348
PRJ Blend-H2 Demand	3,141,898.06	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1349
Blend % H2	26.58	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1350
Blend % NG	73.42	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	4.46	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	95.54	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	10.80	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)

Sample Emission Calculation

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Parameter	Value	Units	Resource
Blend % NG (Heat)	89.20	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	1,472,873.96	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf

Sample Emission Calculation

5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	24,160.27	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NO2)	46.00	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrogen-dioxide
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane

Sample Emission Calculation

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Parameter	Value	Units	Resource
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
BSL NG Vol	13,993,412,719.99	scf/yr	Calculated Below
PRJ H2 Vol	3,500,588,733.93	scf/yr	Calculated Below
PRJ NG Vol	12,823,117,858.94	scf/yr	Calculated Below
BSL NG Consumption	251525106.00	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1351
BSL Overall Heat Rate	14,273,280.97	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	14,273,280.97	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	1,015,407.65	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	178,293.11	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	1,193,700.76	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	11,606,706.26	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy

Sample Emission Calculation

5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
			energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	1,472,873.96	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	13,079,580.22	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.05	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,414.68	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	3.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1352
O2 Correction	1.17	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.03	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1354

Sample Emission Calculation

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Parameter	Value	Units	Resource
NG CH4 EF	0.00	MT CH4/MMBtu	ALP1_GHG_IndustPow_3_DataPrep _SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1355
NG N2O EF	0.00	MT N2O/MMBtu	ALP1_GHG_IndustPow_3_DataPrep _SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1356
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.0000011	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.0000001	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000007	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000010	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	757,340.29	MT CO2e/yr	Calculated Below
BSL CH4	425.34	MT CO2e/yr	Calculated Below
BSL N2O	389.66	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	615,851.83	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	345.88	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	316.86	MT CO2e/yr	Calculated Below
PRJ 100%-NG GHG	616,514.58	MT CO2e/yr	Calculated Below

Sample Emission Calculation

5-SoCal_PowerPeakerBaseload (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
PRJ Blend-NG CO2	77,656.16	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	46.73	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	42.81	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	77,745.70	MT CO2e/yr	Calculated Below
Displaced CO2	63,337.76	MT CO2e/yr	Calculated Below
Displaced CH4	35.57	MT CO2e/yr	Calculated Below
Displaced N2O	32.59	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	48.18	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	200.42	MT CO2e/yr	Calculated Below
PRJ Overall CO2	693,508.00	MT CO2e/yr	Calculated Below
PRJ Overall CH4	392.61	MT CO2e/yr	Calculated Below
PRJ Overall N2O	608.27	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 251,525,106.0 (MMBtu/yr) x 5.6746943 (MMBtu/100-MMBtu) = 14,273,280.9743918 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 251,525,106.0 (MMBtu/yr) x 5.6746943 (MMBtu/100-MMBtu) = 14,273,280.9743918 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 17,893,609.4914102 (MMBtu/yr) x 5.6746943 (MMBtu/100-MMBtu) + 3,141,898.0625345 (MMBtu/yr) x 5.6746943 (MMBtu/100-MMBtu) = 1,193,700.758271 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 14,273,280.9743918 (MMBtu/yr) - 1,193,700.758271 (MMBtu/yr) = 13,079,580.2161208 (MMBtu/yr)

BSL NG Vol (scf/yr) = 14,273,280.9743918 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 13,993,412,719.992 (scf/yr)

Sample Emission Calculation

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PRJ NG Vol (scf/yr) = 13,079,580.2161208 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 12,823,117,858.942 (scf/yr)

PRJ H2 Vol (scf/yr) = 1,193,700.758271 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 3,500,588,733.93258 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 10.7980056 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 89.2019944 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,414.6798655 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 4.455663 (lb/100-lb) x 60,920.0 (Btu/lb) + 95.544337 (lb/100-lb) x 22,446.0 (Btu/lb) = 24,160.2717754 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.05306 (MT CO2/MMBtu) x 1.0285458 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,414.6798655 (scf/MMBtu) = 0.0527242 (MT CO2/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = 0.000001 (MT CH4/MMBtu) x 1.0285458 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,414.6798655 (scf/MMBtu) = 0.0000011 (MT CH4/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = 0.0000001 (MT N2O/MMBtu) x 1.0285458 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,414.6798655 (scf/MMBtu) = 0.0000001 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 1.1675978 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000007 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.0285458 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,414.6798655 (scf/MMBtu) x 1.1675978 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.000001 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 14,273,280.9743918 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 757,340.2885012 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 14,273,280.9743918 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 757,340.2885012 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 14,273,280.9743918 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 14.273281 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 14,273,280.9743918 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 425.343773 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 14,273,280.9743918 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 1.4273281 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 14,273,280.9743918 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 389.6605706 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 757,340.2885012 (MT CO2e/yr) + 425.343773 (MT CO2e/yr) + 389.6605706 (MT CO2e/yr) = 758,155.2928449 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 11,606,706.259682 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 615,851.8341387 (MT CO2/yr)

PRJ 100%-NG CO2 (MT CO2e/yr) = 11,606,706.259682 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 615,851.8341387 (MT CO2e/yr)

Sample Emission Calculation

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PRJ 100%-NG CH4 (MT CH4/yr) = 11,606,706.259682 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 11.6067063 (MT CH4/yr)

PRJ 100%-NG CH4 (MT CO2e/yr) = 11,606,706.259682 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 345.8798465 (MT CO2e/yr)

PRJ 100%-NG N2O (MT N2O/yr) = 11,606,706.259682 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 1.1606706 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 11,606,706.259682 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 316.8630809 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 615,851.8341387 (MT CO2e/yr) + 345.8798465 (MT CO2e/yr) + 316.8630809 (MT CO2e/yr) = 616,514.5770662 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 1,472,873.9564388 (MMBtu/yr) x 0.0527242 (MT CO2/MMBtu) = 77,656.1616774 (MT CO2/yr)

PRJ Blend-NG CO2 (MT CO2e/yr) = 1,472,873.9564388 (MMBtu/yr) x 0.0527242 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 77,656.1616774 (MT CO2e/yr)

PRJ Blend-NG CH4 (MT CH4/yr) = 1,472,873.9564388 (MMBtu/yr) x 0.0000011 (MT CH4/MMBtu) = 1.5680857 (MT CH4/yr)

PRJ Blend-NG CH4 (MT CO2e/yr) = 1,472,873.9564388 (MMBtu/yr) x 0.0000011 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 46.7289533 (MT CO2e/yr)

PRJ Blend-NG N2O (MT N2O/yr) = 1,472,873.9564388 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.1568086 (MT N2O/yr)

PRJ Blend-NG N2O (MT CO2e/yr) = 1,472,873.9564388 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 42.8087391 (MT CO2e/yr)

PRJ Blend-NG GHG (MT CO2e/yr) = 77,656.1616774 (MT CO2e/yr) + 46.7289533 (MT CO2e/yr) + 42.8087391 (MT CO2e/yr) = 77,745.6993698 (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = 178,293.1117797 (MMBtu/yr) x 0.000001 (MT N2O/MMBtu) = 0.1764962 (MT N2O/yr)

PRJ Blend-H2 N2O (MT CO2e/yr) = 178,293.1117797 (MMBtu/yr) x 0.000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 48.1834577 (MT CO2e/yr)

PRJ 100%-H2 N2O (MT N2O/yr) = 1,015,407.6464913 (MMBtu/yr) x 0.0000007 (MT N2O/MMBtu) = 0.7341225 (MT N2O/yr)

PRJ 100%-H2 N2O (MT CO2e/yr) = 1,015,407.6464913 (MMBtu/yr) x 0.0000007 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 200.4154333 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2e/yr) = 615,851.8341387 (MT CO2e/yr) + 77,656.1616774 (MT CO2e/yr) = 693,507.9958161 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = 345.8798465 (MT CO2e/yr) + 46.7289533 (MT CO2e/yr) = 392.6087998 (MT CO2e/yr)

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PRJ Overall N2O (MT CO2e/yr) = 48.1834577 (MT CO2e/yr) + 200.4154333 (MT CO2e/yr) + 42.8087391 (MT CO2e/yr) + 316.8630809 (MT CO2e/yr) = 608.2707111 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = 693,507.9958161 (MT CO2e/yr) ÷ 1.0 (MT CO2e/MT CO2) = 693,507.9958161 (MT CO2/yr)

PRJ Overall CH4 (MT CH4/yr) = 392.6087998 (MT CO2e/yr) ÷ 29.8 (MT CO2e/MT CH4) = 13.1747919 (MT CH4/yr)

PRJ Overall N2O (MT N2O/yr) = 608.2707111 (MT CO2e/yr) ÷ 273.0 (MT CO2e/MT N2O) = 2.2280978 (MT N2O/yr)

PRJ Overall GHG (MT CO2e/yr) = 48.1834577 (MT CO2e/yr) + 200.4154333 (MT CO2e/yr) + 77,745.6993698 (MT CO2e/yr) + 616,514.5770662 (MT CO2e/yr) = 694,508.875327 (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = 1,193,700.758271 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 63,337.7622339 (MT CO2/yr)

Displaced CO2 (MT CO2e/yr) = 1,193,700.758271 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 63,337.7622339 (MT CO2e/yr)

Displaced CH4 (MT CH4/yr) = 1,193,700.758271 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 1.1937008 (MT CH4/yr)

Displaced CH4 (MT CO2e/yr) = 1,193,700.758271 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 35.5722826 (MT CO2e/yr)

Displaced N2O (MT N2O/yr) = 1,193,700.758271 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.1193701 (MT N2O/yr)

Displaced N2O (MT CO2e/yr) = 1,193,700.758271 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 32.5880307 (MT CO2e/yr)

Displaced GHG (MT CO2e/yr) = 63,337.7622339 (MT CO2e/yr) + 35.5722826 (MT CO2e/yr) + 32.5880307 (MT CO2e/yr) = 63,405.9225472 (MT CO2e/yr)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

10/15/2024

Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ 100%-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu) + PRJ Blend-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate (MMBtu/yr) - PRJ Overall H2 Heat Rate (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = NG CH4 EF (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ 100%-H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ Blend-H2 Demand (MMBtu/yr) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Power GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	0.00	MMBtu/100-MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1647
PRJ 100%-H2 Demand	17,893,609.49	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1648
PRJ Blend-H2 Demand	3,141,898.06	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1649
Blend % H2	26.58	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1650
Blend % NG	73.42	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	4.46	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	95.54	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	10.80	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
Blend % NG (Heat)	89.20	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	0.00	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	24,160.27	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NO2)	46.00	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrogen-dioxide
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
BSL NG Vol	0.00	scf/yr	Calculated Below
PRJ H2 Vol	0.00	scf/yr	Calculated Below
PRJ NG Vol	0.00	scf/yr	Calculated Below
BSL NG Consumption	251525106.00	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1651
BSL Overall Heat Rate	0.00	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	0.00	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	0.00	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	0.00	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
			energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	0.00	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.05	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,414.68	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	0.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1652
O2 Correction	1.00	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.03	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.00	MT CO2/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1654

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
NG CH4 EF	0.00	MT CH4/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1655
NG N2O EF	0.00	MT N2O/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV1656
Blend-NG CO2 EF	0.00	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.0000000	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.0000000	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000006	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000008	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	0.00	MT CO2e/yr	Calculated Below
BSL CH4	0.00	MT CO2e/yr	Calculated Below
BSL N2O	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG GHG	0.00	MT CO2e/yr	Calculated Below

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
PRJ Blend-NG CO2	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	0.00	MT CO2e/yr	Calculated Below
Displaced CO2	0.00	MT CO2e/yr	Calculated Below
Displaced CH4	0.00	MT CO2e/yr	Calculated Below
Displaced N2O	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	0.00	MT CO2e/yr	Calculated Below
PRJ Overall CO2	0.00	MT CO2e/yr	Calculated Below
PRJ Overall CH4	0.00	MT CO2e/yr	Calculated Below
PRJ Overall N2O	0.00	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 251,525,106.0 (MMBtu/yr) x 0.0 (MMBtu/100-MMBtu) = 0.0 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 251,525,106.0 (MMBtu/yr) x 0.0 (MMBtu/100-MMBtu) = 0.0 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 17,893,609.4914102 (MMBtu/yr) x 0.0 (MMBtu/100-MMBtu) + 3,141,898.0625345 (MMBtu/yr) x 0.0 (MMBtu/100-MMBtu) = 0.0 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 0.0 (MMBtu/yr) - 0.0 (MMBtu/yr) = 0.0 (MMBtu/yr)

BSL NG Vol (scf/yr) = 0.0 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 0.0 (scf/yr)

PRJ NG Vol (scf/yr) = 0.0 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 0.0 (scf/yr)

PRJ H2 Vol (scf/yr) = 0.0 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 0.0 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

10/15/2024

Fd Blend (scf/MMBtu) = 10.7980056 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 89.2019944 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,414.6798655 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 4.455663 (lb/100-lb) x 60,920.0 (Btu/lb) + 95.544337 (lb/100-lb) x 22,446.0 (Btu/lb) = 24,160.2717754 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.0 (MT CO2/MMBtu) x 1.0285458 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,414.6798655 (scf/MMBtu) = 0.0 (MT CO2/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = 0.0 (MT CH4/MMBtu) x 1.0285458 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,414.6798655 (scf/MMBtu) = 0.0 (MT CH4/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = 0.0 (MT N2O/MMBtu) x 1.0285458 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,414.6798655 (scf/MMBtu) = 0.0 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 1.0 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000006 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.0285458 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,414.6798655 (scf/MMBtu) x 1.0 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000008 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO2/MMBtu) = 0.0 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 0.0 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH4/MMBtu) = 0.0 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.0 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 0.0 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO2/MMBtu) = 0.0 (MT CO2/yr)

PRJ 100%-NG CO2 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 0.0 (MT CO2e/yr)

PRJ 100%-NG CH4 (MT CH4/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH4/MMBtu) = 0.0 (MT CH4/yr)

PRJ 100%-NG CH4 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.0 (MT CO2e/yr)

PRJ 100%-NG N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 0.0 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO2/MMBtu) = 0.0 (MT CO2/yr)

Sample Emission Calculation

6-SoCal_PowerPeakerBaseload (MidModerate_ECOvens) 2035_H2-NG

10/15/2024

PRJ Blend-NG CO_2 (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 0.0 (MT CO_2e/yr)

PRJ Blend-NG CH_4 (MT CH_4/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH_4/MMBtu) = 0.0 (MT CH_4/yr)

PRJ Blend-NG CH_4 (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 0.0 (MT CO_2e/yr)

PRJ Blend-NG N_2O (MT N_2O/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N_2O/MMBtu) = 0.0 (MT N_2O/yr)

PRJ Blend-NG N_2O (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 0.0 (MT CO_2e/yr)

PRJ Blend-NG GHG (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr)

PRJ Blend-H_2 N_2O (MT N_2O/yr) = 0.0 (MMBtu/yr) x 0.0000008 (MT N_2O/MMBtu) = 0.0 (MT N_2O/yr)

PRJ Blend-H_2 N_2O (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0000008 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 0.0 (MT CO_2e/yr)

PRJ 100%-H_2 N_2O (MT N_2O/yr) = 0.0 (MMBtu/yr) x 0.0000006 (MT N_2O/MMBtu) = 0.0 (MT N_2O/yr)

PRJ 100%-H_2 N_2O (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0000006 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 0.0 (MT CO_2e/yr)

PRJ Overall CO_2 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr)

PRJ Overall CH_4 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr)

PRJ Overall N_2O (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr)

PRJ Overall CO_2 (MT CO_2/yr) = 0.0 (MT CO_2e/yr) ÷ 1.0 (MT CO_2e/MT CO_2) = 0.0 (MT CO_2/yr)

PRJ Overall CH_4 (MT CH_4/yr) = 0.0 (MT CO_2e/yr) ÷ 29.8 (MT CO_2e/MT CH_4) = 0.0 (MT CH_4/yr)

PRJ Overall N_2O (MT N_2O/yr) = 0.0 (MT CO_2e/yr) ÷ 273.0 (MT CO_2e/MT N_2O) = 0.0 (MT N_2O/yr)

PRJ Overall GHG (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr)

Displaced CO_2 (MT CO_2/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO_2/MMBtu) = 0.0 (MT CO_2/yr)

Displaced CO_2 (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 0.0 (MT CO_2e/yr)

Displaced CH_4 (MT CH_4/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH_4/MMBtu) = 0.0 (MT CH_4/yr)

Displaced CH_4 (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 0.0 (MT CO_2e/yr)

Displaced N_2O (MT N_2O/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N_2O/MMBtu) = 0.0 (MT N_2O/yr)

Displaced N_2O (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 0.0 (MT CO_2e/yr)

Displaced GHG (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT CO_2e/yr)

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ 100%-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu) + PRJ Blend-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate (MMBtu/yr) - PRJ Overall H2 Heat Rate (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = NG CH4 EF (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ 100%-H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ Blend-H2 Demand (MMBtu/yr) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Power GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	0.16	MMBtu/100-MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5547
PRJ 100%-H2 Demand	5,200,073.80	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5548
PRJ Blend-H2 Demand	480,363.79	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5549
Blend % H2	17.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5550
Blend % NG	83.00	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	2.57	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	97.43	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	6.41	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

Parameter	Value	Units	Resource
Blend % NG (Heat)	93.59	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	11,328.97	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf

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Parameter	Value	Units	Resource
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	23,434.83	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NO2)	46.00	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrogen-dioxide
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

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Parameter	Value	Units	Resource
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
BSL NG Vol	115,727,819.71	scf/yr	Calculated Below
PRJ H2 Vol	26,901,250.19	scf/yr	Calculated Below
PRJ NG Vol	106,734,362.54	scf/yr	Calculated Below
BSL NG Consumption	73095879.00	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5551
BSL Overall Heat Rate	118,042.38	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	118,042.38	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	8,397.59	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	775.74	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	9,173.33	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	97,540.08	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy

Sample Emission Calculation

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Parameter	Value	Units	Resource
			energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	11,328.97	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	108,869.05	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.05	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,534.73	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	15.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5552
O2 Correction	3.54	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.02	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5554

Sample Emission Calculation

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Parameter	Value	Units	Resource
NG CH4 EF	0.00	MT CH4/MMBtu	ALP1_GHG_IndustPow_3_DataPrep _SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5555
NG N2O EF	0.00	MT N2O/MMBtu	ALP1_GHG_IndustPow_3_DataPrep _SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5556
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.0000010	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.0000001	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000022	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000031	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	6,263.33	MT CO2e/yr	Calculated Below
BSL CH4	3.52	MT CO2e/yr	Calculated Below
BSL N2O	3.22	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	5,175.48	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	2.91	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	2.66	MT CO2e/yr	Calculated Below
PRJ 100%-NG GHG	5,181.05	MT CO2e/yr	Calculated Below

Sample Emission Calculation

19-SoCal_PowerCogeneration (MidModerate_ICEngines) 2035_H2-NG

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Parameter	Value	Units	Resource
PRJ Blend-NG CO2	598.53	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	0.35	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	0.32	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	599.20	MT CO2e/yr	Calculated Below
Displaced CO2	486.74	MT CO2e/yr	Calculated Below
Displaced CH4	0.27	MT CO2e/yr	Calculated Below
Displaced N2O	0.25	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	0.65	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	5.03	MT CO2e/yr	Calculated Below
PRJ Overall CO2	5,774.01	MT CO2e/yr	Calculated Below
PRJ Overall CH4	3.26	MT CO2e/yr	Calculated Below
PRJ Overall N2O	8.67	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 73,095,879.0 (MMBtu/yr) x 0.1614898 (MMBtu/100-MMBtu) = 118,042.3761033 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 73,095,879.0 (MMBtu/yr) x 0.1614898 (MMBtu/100-MMBtu) = 118,042.3761033 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 5,200,073.802006 (MMBtu/yr) x 0.1614898 (MMBtu/100-MMBtu) + 480,363.7861503 (MMBtu/yr) x 0.1614898 (MMBtu/100-MMBtu) = 9,173.3263131 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 118,042.3761033 (MMBtu/yr) - 9,173.3263131 (MMBtu/yr) = 108,869.0497902 (MMBtu/yr)

BSL NG Vol (scf/yr) = 118,042.3761033 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 115,727,819.709129 (scf/yr)

Sample Emission Calculation

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PRJ NG Vol (scf/yr) = 108,869.0497902 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 106,734,362.539388 (scf/yr)

PRJ H2 Vol (scf/yr) = 9,173.3263131 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 26,901,250.1851505 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 6.4085698 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 93.5914302 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,534.7287714 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 2.5701327 (lb/100-lb) x 60,920.0 (Btu/lb) + 97.4298673 (lb/100-lb) x 22,446.0 (Btu/lb) = 23,434.8328574 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.05306 (MT CO2/MMBtu) x 1.01615 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,534.7287714 (scf/MMBtu) = 0.0528319 (MT CO2/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = 0.000001 (MT CH4/MMBtu) x 1.01615 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,534.7287714 (scf/MMBtu) = 0.000001 (MT CH4/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = 0.0000001 (MT N2O/MMBtu) x 1.01615 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,534.7287714 (scf/MMBtu) = 0.0000001 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.01615 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,534.7287714 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000031 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 118,042.3761033 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 6,263.328476 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 118,042.3761033 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 6,263.328476 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 118,042.3761033 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.1180424 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 118,042.3761033 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 3.5176628 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 118,042.3761033 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0118042 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 118,042.3761033 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 3.2225569 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 6,263.328476 (MT CO2e/yr) + 3.5176628 (MT CO2e/yr) + 3.2225569 (MT CO2e/yr) = 6,270.0686957 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 97,540.0838031 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 5,175.4768466 (MT CO2/yr)

PRJ 100%-NG CO2 (MT CO2e/yr) = 97,540.0838031 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 5,175.4768466 (MT CO2e/yr)

Sample Emission Calculation

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PRJ 100%-NG CH4 (MT CH4/yr) = 97,540.0838031 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0975401 (MT CH4/yr)

PRJ 100%-NG CH4 (MT CO2e/yr) = 97,540.0838031 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 2.9066945 (MT CO2e/yr)

PRJ 100%-NG N2O (MT N2O/yr) = 97,540.0838031 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.009754 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 97,540.0838031 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 2.6628443 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 5,175.4768466 (MT CO2e/yr) + 2.9066945 (MT CO2e/yr) + 2.6628443 (MT CO2e/yr) = 5,181.0463854 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 11,328.965987 (MMBtu/yr) x 0.0528319 (MT CO2/MMBtu) = 598.5313585 (MT CO2/yr)

PRJ Blend-NG CO2 (MT CO2e/yr) = 11,328.965987 (MMBtu/yr) x 0.0528319 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 598.5313585 (MT CO2e/yr)

PRJ Blend-NG CH4 (MT CH4/yr) = 11,328.965987 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0117483 (MT CH4/yr)

PRJ Blend-NG CH4 (MT CO2e/yr) = 11,328.965987 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.3501005 (MT CO2e/yr)

PRJ Blend-NG N2O (MT N2O/yr) = 11,328.965987 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0011748 (MT N2O/yr)

PRJ Blend-NG N2O (MT CO2e/yr) = 11,328.965987 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.3207297 (MT CO2e/yr)

PRJ Blend-NG GHG (MT CO2e/yr) = 598.5313585 (MT CO2e/yr) + 0.3501005 (MT CO2e/yr) + 0.3207297 (MT CO2e/yr) = 599.2021888 (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = 775.7384341 (MMBtu/yr) x 0.0000031 (MT N2O/MMBtu) = 0.0023919 (MT N2O/yr)

PRJ Blend-H2 N2O (MT CO2e/yr) = 775.7384341 (MMBtu/yr) x 0.0000031 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.6529767 (MT CO2e/yr)

PRJ 100%-H2 N2O (MT N2O/yr) = 8,397.5878791 (MMBtu/yr) x 0.0000022 (MT N2O/MMBtu) = 0.0184198 (MT N2O/yr)

PRJ 100%-H2 N2O (MT CO2e/yr) = 8,397.5878791 (MMBtu/yr) x 0.0000022 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 5.0285935 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2e/yr) = 5,175.4768466 (MT CO2e/yr) + 598.5313585 (MT CO2e/yr) = 5,774.0082051 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = 2.9066945 (MT CO2e/yr) + 0.3501005 (MT CO2e/yr) = 3.256795 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = 0.6529767 (MT CO2e/yr) + 5.0285935 (MT CO2e/yr) + 0.3207297 (MT CO2e/yr) + 2.6628443 (MT CO2e/yr) = 8.6651442 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = 5,774.0082051 (MT CO2e/yr) ÷ 1.0 (MT CO2e/MT CO2) = 5,774.0082051 (MT CO2/yr)

PRJ Overall CH4 (MT CH4/yr) = 3.256795 (MT CO2e/yr) ÷ 29.8 (MT CO2e/MT CH4) = 0.1092884 (MT CH4/yr)

Sample Emission Calculation

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PRJ Overall N2O (MT N2O/yr) = 8.6651442 (MT CO2e/yr) ÷ 273.0 (MT CO2e/MT N2O) = 0.0317405 (MT N2O/yr)

PRJ Overall GHG (MT CO2e/yr) = 0.6529767 (MT CO2e/yr) + 5.0285935 (MT CO2e/yr) + 599.2021888 (MT CO2e/yr) + 5,181.0463854 (MT CO2e/yr) = 5,785.9301443 (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = 9,173.3263131 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 486.7366942 (MT CO2/yr)

Displaced CO2 (MT CO2e/yr) = 9,173.3263131 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 486.7366942 (MT CO2e/yr)

Displaced CH4 (MT CH4/yr) = 9,173.3263131 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0091733 (MT CH4/yr)

Displaced CH4 (MT CO2e/yr) = 9,173.3263131 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.2733651 (MT CO2e/yr)

Displaced N2O (MT N2O/yr) = 9,173.3263131 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0009173 (MT N2O/yr)

Displaced N2O (MT CO2e/yr) = 9,173.3263131 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.2504318 (MT CO2e/yr)

Displaced GHG (MT CO2e/yr) = 486.7366942 (MT CO2e/yr) + 0.2733651 (MT CO2e/yr) + 0.2504318 (MT CO2e/yr) = 487.2604911 (MT CO2e/yr)

Sample Emission Calculation

20-SoCal_PowerCogeneration (MidModerate_ICTurbines) 2035_H2-NG

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Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ 100%-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu) + PRJ Blend-H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate (MMBtu/yr) - PRJ Overall H2 Heat Rate (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = NG CH4 EF (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) x Fd Ng (scf/MMBtu) ÷ Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

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BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

Sample Emission Calculation

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PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ 100%-H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ Blend-H2 Demand (MMBtu/yr) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Sample Emission Calculation

20-SoCal_PowerCogeneration (MidModerate_ICTurbines) 2035_H2-NG

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Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Power GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	99.01	MMBtu/100-MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5847
PRJ 100%-H2 Demand	5,200,073.80	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5848
PRJ Blend-H2 Demand	480,363.79	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5849
Blend % H2	17.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5850
Blend % NG	83.00	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	2.57	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	97.43	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	6.41	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)

Sample Emission Calculation

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Parameter	Value	Units	Resource
Blend % NG (Heat)	93.59	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	6,946,134.13	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf

Sample Emission Calculation

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Parameter	Value	Units	Resource
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	23,434.83	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NO2)	46.00	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrogen-dioxide
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane

Sample Emission Calculation

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Parameter	Value	Units	Resource
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
BSL NG Vol	70,956,251,363.69	scf/yr	Calculated Below
PRJ H2 Vol	16,493,975,907.72	scf/yr	Calculated Below
PRJ NG Vol	65,442,088,829.83	scf/yr	Calculated Below
BSL NG Consumption	73095879.00	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5851
BSL Overall Heat Rate	72,375,376.39	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	72,375,376.39	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	5,148,816.92	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	475,628.86	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	5,624,445.78	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	59,804,796.48	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy

Sample Emission Calculation

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Parameter	Value	Units	Resource
			energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	6,946,134.13	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	66,750,930.61	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.05	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,534.73	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	15.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5852
O2 Correction	3.54	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.02	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5854

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Parameter	Value	Units	Resource
NG CH4 EF	0.00	MT CH4/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5855
NG N2O EF	0.00	MT N2O/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AV5856
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.0000010	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.0000001	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000022	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000031	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	3,840,237.47	MT CO2e/yr	Calculated Below
BSL CH4	2,156.79	MT CO2e/yr	Calculated Below
BSL N2O	1,975.85	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	3,173,242.50	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	1,782.18	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	1,632.67	MT CO2e/yr	Calculated Below
PRJ 100%-NG GHG	3,176,657.35	MT CO2e/yr	Calculated Below

Sample Emission Calculation

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Parameter	Value	Units	Resource
PRJ Blend-NG CO2	366,977.81	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	214.66	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	196.65	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	367,389.11	MT CO2e/yr	Calculated Below
Displaced CO2	298,433.09	MT CO2e/yr	Calculated Below
Displaced CH4	167.61	MT CO2e/yr	Calculated Below
Displaced N2O	153.55	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	400.36	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	3,083.18	MT CO2e/yr	Calculated Below
PRJ Overall CO2	3,540,220.31	MT CO2e/yr	Calculated Below
PRJ Overall CH4	1,996.84	MT CO2e/yr	Calculated Below
PRJ Overall N2O	5,312.86	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 73,095,879.0 (MMBtu/yr) x 99.0143047 (MMBtu/100-MMBtu) = 72,375,376.3909596 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 73,095,879.0 (MMBtu/yr) x 99.0143047 (MMBtu/100-MMBtu) = 72,375,376.3909596 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 5,200,073.802006 (MMBtu/yr) x 99.0143047 (MMBtu/100-MMBtu) + 480,363.7861503 (MMBtu/yr) x 99.0143047 (MMBtu/100-MMBtu) = 5,624,445.7845314 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 72,375,376.3909596 (MMBtu/yr) - 5,624,445.7845314 (MMBtu/yr) = 66,750,930.6064283 (MMBtu/yr)

BSL NG Vol (scf/yr) = 72,375,376.3909596 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 70,956,251,363.6859 (scf/yr)

Sample Emission Calculation

20-SoCal_PowerCogeneration (MidModerate_ICTurbines) 2035_H2-NG

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PRJ NG Vol (scf/yr) = 66,750,930.6064283 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 65,442,088,829.8317 (scf/yr)

PRJ H2 Vol (scf/yr) = 5,624,445.7845314 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 16,493,975,907.7166 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 6.4085698 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 93.5914302 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,534.7287714 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 2.5701327 (lb/100-lb) x 60,920.0 (Btu/lb) + 97.4298673 (lb/100-lb) x 22,446.0 (Btu/lb) = 23,434.8328574 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.05306 (MT CO2/MMBtu) x 1.01615 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,534.7287714 (scf/MMBtu) = 0.0528319 (MT CO2/MMBtu)

Blend-NG CH4 EF (MT CH4/MMBtu) = 0.000001 (MT CH4/MMBtu) x 1.01615 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,534.7287714 (scf/MMBtu) = 0.000001 (MT CH4/MMBtu)

Blend-NG N2O EF (MT N2O/MMBtu) = 0.0000001 (MT N2O/MMBtu) x 1.01615 (ppm/ppm) x 8,710.0 (scf/MMBtu) ÷ 8,534.7287714 (scf/MMBtu) = 0.0000001 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.01615 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,534.7287714 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000031 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 72,375,376.3909596 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 3,840,237.4713043 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 72,375,376.3909596 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 3,840,237.4713043 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 72,375,376.3909596 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 72.3753764 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 72,375,376.3909596 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 2,156.7862165 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 72,375,376.3909596 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 7.2375376 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 72,375,376.3909596 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 1,975.8477755 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 3,840,237.4713043 (MT CO2e/yr) + 2,156.7862165 (MT CO2e/yr) + 1,975.8477755 (MT CO2e/yr) = 3,844,370.1052962 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 59,804,796.4764686 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 3,173,242.5010414 (MT CO2/yr)

Sample Emission Calculation

20-SoCal_PowerCogeneration (MidModerate_ICTurbines) 2035_H2-NG

10/15/2024

PRJ 100%-NG CO_2 (MT CO_2e/yr) = 59,804,796.4764686 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 3,173,242.5010414 (MT CO_2e/yr)

PRJ 100%-NG CH_4 (MT CH_4/yr) = 59,804,796.4764686 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 59.8047965 (MT CH_4/yr)

PRJ 100%-NG CH_4 (MT CO_2e/yr) = 59,804,796.4764686 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 1,782.182935 (MT CO_2e/yr)

PRJ 100%-NG N_2O (MT N_2O/yr) = 59,804,796.4764686 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 5.9804796 (MT N_2O/yr)

PRJ 100%-NG N_2O (MT CO_2e/yr) = 59,804,796.4764686 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 1,632.6709438 (MT CO_2e/yr)

PRJ 100%-NG GHG (MT CO_2e/yr) = 3,173,242.5010414 (MT CO_2e/yr) + 1,782.182935 (MT CO_2e/yr) + 1,632.6709438 (MT CO_2e/yr) = 3,176,657.3549202 (MT CO_2e/yr)

PRJ Blend-NG CO_2 (MT CO_2/yr) = 6,946,134.1299597 (MMBtu/yr) x 0.0528319 (MT CO_2/MMBtu) = 366,977.8073418 (MT CO_2/yr)

PRJ Blend-NG CO_2 (MT CO_2e/yr) = 6,946,134.1299597 (MMBtu/yr) x 0.0528319 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 366,977.8073418 (MT CO_2e/yr)

PRJ Blend-NG CH_4 (MT CH_4/yr) = 6,946,134.1299597 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 7.2032654 (MT CH_4/yr)

PRJ Blend-NG CH_4 (MT CO_2e/yr) = 6,946,134.1299597 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 214.6573096 (MT CO_2e/yr)

PRJ Blend-NG N_2O (MT N_2O/yr) = 6,946,134.1299597 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 0.7203265 (MT N_2O/yr)

PRJ Blend-NG N_2O (MT CO_2e/yr) = 6,946,134.1299597 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 196.649146 (MT CO_2e/yr)

PRJ Blend-NG GHG (MT CO_2e/yr) = 366,977.8073418 (MT CO_2e/yr) + 214.6573096 (MT CO_2e/yr) + 196.649146 (MT CO_2e/yr) = 367,389.1137974 (MT CO_2e/yr)

PRJ Blend-H_2 N_2O (MT N_2O/yr) = 475,628.8631157 (MMBtu/yr) x 0.0000031 (MT N_2O/MMBtu) = 1.4665198 (MT N_2O/yr)

PRJ Blend-H_2 N_2O (MT CO_2e/yr) = 475,628.8631157 (MMBtu/yr) x 0.0000031 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 400.3599002 (MT CO_2e/yr)

PRJ 100%-H_2 N_2O (MT N_2O/yr) = 5,148,816.9214156 (MMBtu/yr) x 0.0000022 (MT N_2O/MMBtu) = 11.2937137 (MT N_2O/yr)

PRJ 100%-H_2 N_2O (MT CO_2e/yr) = 5,148,816.9214156 (MMBtu/yr) x 0.0000022 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 3,083.183831 (MT CO_2e/yr)

PRJ Overall CO_2 (MT CO_2e/yr) = 3,173,242.5010414 (MT CO_2e/yr) + 366,977.8073418 (MT CO_2e/yr) = 3,540,220.3083832 (MT CO_2e/yr)

Sample Emission Calculation

20-SoCal_PowerCogeneration (MidModerate_ICTurbines) 2035_H2-NG

10/15/2024

PRJ Overall CH_4 (MT CO_2e/yr) = 1,782.182935 (MT CO_2e/yr) + 214.6573096 (MT CO_2e/yr) = 1,996.8402446 (MT CO_2e/yr)

PRJ Overall N_2O (MT CO_2e/yr) = 400.3599002 (MT CO_2e/yr) + 3,083.183831 (MT CO_2e/yr) + 196.649146 (MT CO_2e/yr) + 1,632.6709438 (MT CO_2e/yr) = 5,312.8638211 (MT CO_2e/yr)

PRJ Overall CO_2 (MT CO_2/yr) = 3,540,220.3083832 (MT CO_2e/yr) ÷ 1.0 (MT CO_2e/MT CO_2) = 3,540,220.3083832 (MT CO_2/yr)

PRJ Overall CH_4 (MT CH_4/yr) = 1,996.8402446 (MT CO_2e/yr) ÷ 29.8 (MT CO_2e/MT CH_4) = 67.0080619 (MT CH_4/yr)

PRJ Overall N_2O (MT N_2O/yr) = 5,312.8638211 (MT CO_2e/yr) ÷ 273.0 (MT CO_2e/MT N_2O) = 19.4610396 (MT N_2O/yr)

PRJ Overall GHG (MT CO_2e/yr) = 400.3599002 (MT CO_2e/yr) + 3,083.183831 (MT CO_2e/yr) + 367,389.1137974 (MT CO_2e/yr) + 3,176,657.3549202 (MT CO_2e/yr) = 3,547,530.0124489 (MT CO_2e/yr)

Displaced CO_2 (MT CO_2/yr) = 5,624,445.7845314 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) = 298,433.0933272 (MT CO_2/yr)

Displaced CO_2 (MT CO_2e/yr) = 5,624,445.7845314 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 298,433.0933272 (MT CO_2e/yr)

Displaced CH_4 (MT CH_4/yr) = 5,624,445.7845314 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 5.6244458 (MT CH_4/yr)

Displaced CH_4 (MT CO_2e/yr) = 5,624,445.7845314 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 167.6084844 (MT CO_2e/yr)

Displaced N_2O (MT N_2O/yr) = 5,624,445.7845314 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 0.5624446 (MT N_2O/yr)

Displaced N_2O (MT CO_2e/yr) = 5,624,445.7845314 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 153.5473699 (MT CO_2e/yr)

Displaced GHG (MT CO_2e/yr) = 298,433.0933272 (MT CO_2e/yr) + 167.6084844 (MT CO_2e/yr) + 153.5473699 (MT CO_2e/yr) = 298,754.2491815 (MT CO_2e/yr)

Appendix C.4:

Hard to Electrify Industrial

GHG Results, Calculations, and Data

	A	C	D	E	F
1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	**Fuel Type**	**Parameter**	**Value**	**Reference**
97	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT94
98	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT95
99	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT96
100	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT97
101	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT98
102	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT99
104	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT101
105	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT102
106	1-SoCal_Refineries (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT103
107	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT104
108	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT105
109	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT106
110	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT107
111	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT108
112	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT109
114	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT111
115	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT112
116	1-SoCal_Refineries (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT113
117	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT114
118	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT115
119	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT116
120	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT117
121	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT118
122	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT119
124	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT121
125	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT122
126	1-SoCal_Refineries (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT123
127	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT124
128	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT125
129	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT126
130	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT127
131	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT128
132	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT129
134	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT131
135	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT132
136	1-SoCal_Refineries (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT133
137	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT134
138	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT135
139	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT136
140	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT137
141	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT138
142	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT139

	A	C	D	E	F
1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
144	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT141
145	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT142
146	1-SoCal_Refineries (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT143
147	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT144
148	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT145
149	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT146
150	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT147
151	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT148
152	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT149
154	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT151
155	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT152
156	1-SoCal_Refineries (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT153
157	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT154
158	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT155
159	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT156
160	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT157
161	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT158
162	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT159
164	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT161
165	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT162
166	1-SoCal_Refineries (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT163
167	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT164
168	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT165
169	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT166
170	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT167
171	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT168
172	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT169
174	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT171
175	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT172
176	1-SoCal_Refineries (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT173
177	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT174
178	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT175
179	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT176
180	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT177
181	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT178
182	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT179
184	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT181
185	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT182
186	1-SoCal_Refineries (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT183
187	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT184
188	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT185
189	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT186

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
190	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT187
191	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT188
192	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT189
194	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT191
195	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT192
196	1-SoCal_Refineries (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT193
197	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT194
198	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT195
199	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT196
200	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT197
201	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT198
202	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT199
204	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT201
205	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT202
206	1-SoCal_Refineries (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT203
207	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT204
208	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT205
209	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT206
210	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT207
211	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT208
212	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT209
214	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT211
215	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT212
216	1-SoCal_Refineries (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT213
217	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT214
218	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT215
219	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT216
220	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT217
221	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT218
222	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT219
224	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT221
225	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT222
226	1-SoCal_Refineries (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT223
227	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT224
228	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT225
229	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT226
230	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT227
231	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT228
232	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT229
234	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT231
235	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT232
236	1-SoCal_Refineries (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT233

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
237	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT234
238	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT235
239	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT236
240	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT237
241	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT238
242	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT239
244	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT241
245	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT242
246	1-SoCal_Refineries (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT243
247	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT244
248	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT245
249	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT246
250	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT247
251	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT248
252	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT249
254	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT251
255	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT252
256	1-SoCal_Refineries (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT253
397	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT394
398	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT395
399	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT396
400	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT397
401	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT398
402	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT399
404	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT401
405	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT402
406	2-SoCal_Refineries (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT403
407	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT404
408	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT405
409	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT406
410	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT407
411	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT408
412	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT409
414	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT411
415	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT412
416	2-SoCal_Refineries (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT413
417	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT414
418	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT415
419	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT416
420	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT417
421	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT418
422	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT419

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
424	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT421
425	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT422
426	2-SoCal_Refineries (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT423
427	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT424
428	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT425
429	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT426
430	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT427
431	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT428
432	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT429
434	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT431
435	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT432
436	2-SoCal_Refineries (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT433
437	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT434
438	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT435
439	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT436
440	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT437
441	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT438
442	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT439
444	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT441
445	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT442
446	2-SoCal_Refineries (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT443
447	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT444
448	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT445
449	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT446
450	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT447
451	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT448
452	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT449
454	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT451
455	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT452
456	2-SoCal_Refineries (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT453
457	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT454
458	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT455
459	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT456
460	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT457
461	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT458
462	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT459
464	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT461
465	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT462
466	2-SoCal_Refineries (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT463
467	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT464
468	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT465
469	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT466

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
470	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT467
471	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT468
472	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT469
474	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT471
475	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT472
476	2-SoCal_Refineries (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT473
477	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT474
478	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT475
479	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT476
480	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT477
481	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT478
482	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT479
484	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT481
485	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT482
486	2-SoCal_Refineries (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT483
487	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT484
488	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT485
489	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT486
490	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT487
491	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT488
492	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT489
494	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT491
495	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT492
496	2-SoCal_Refineries (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT493
497	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT494
498	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT495
499	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT496
500	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT497
501	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT498
502	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT499
504	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT501
505	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT502
506	2-SoCal_Refineries (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT503
507	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT504
508	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT505
509	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT506
510	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT507
511	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT508
512	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT509
514	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT511
515	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT512
516	2-SoCal_Refineries (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT513

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
517	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT514
518	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT515
519	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT516
520	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT517
521	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT518
522	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT519
524	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT521
525	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT522
526	2-SoCal_Refineries (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT523
527	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT524
528	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT525
529	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT526
530	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT527
531	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT528
532	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT529
534	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT531
535	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT532
536	2-SoCal_Refineries (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT533
537	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT534
538	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT535
539	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT536
540	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT537
541	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT538
542	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT539
544	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT541
545	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT542
546	2-SoCal_Refineries (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT543
547	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT544
548	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT545
549	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT546
550	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT547
551	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT548
552	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT549
554	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT551
555	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT552
556	2-SoCal_Refineries (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT553
697	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT694
698	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT695
699	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT696
700	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT697
701	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT698
702	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT699

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
704	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT701
705	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT702
706	3-SoCal_Refineries (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT703
707	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT704
708	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT705
709	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT706
710	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT707
711	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT708
712	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT709
714	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT711
715	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT712
716	3-SoCal_Refineries (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT713
717	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT714
718	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT715
719	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT716
720	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT717
721	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT718
722	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT719
724	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT721
725	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT722
726	3-SoCal_Refineries (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT723
727	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT724
728	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT725
729	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT726
730	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT727
731	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT728
732	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT729
734	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT731
735	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT732
736	3-SoCal_Refineries (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT733
737	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT734
738	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT735
739	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT736
740	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT737
741	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT738
742	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT739
744	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT741
745	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT742
746	3-SoCal_Refineries (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT743
747	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT744
748	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT745
749	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT746

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
750	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT747
751	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT748
752	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT749
754	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT751
755	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT752
756	3-SoCal_Refineries (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT753
757	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT754
758	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT755
759	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT756
760	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT757
761	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT758
762	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT759
764	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT761
765	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT762
766	3-SoCal_Refineries (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT763
767	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT764
768	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT765
769	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT766
770	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT767
771	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT768
772	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT769
774	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT771
775	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT772
776	3-SoCal_Refineries (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT773
777	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT774
778	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT775
779	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT776
780	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT777
781	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT778
782	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT779
784	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT781
785	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT782
786	3-SoCal_Refineries (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT783
787	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT784
788	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT785
789	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT786
790	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT787
791	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT788
792	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT789
794	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT791
795	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT792
796	3-SoCal_Refineries (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT793

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
797	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT794
798	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT795
799	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT796
800	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT797
801	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT798
802	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT799
804	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT801
805	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT802
806	3-SoCal_Refineries (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT803
807	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT804
808	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT805
809	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT806
810	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT807
811	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT808
812	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT809
814	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT811
815	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT812
816	3-SoCal_Refineries (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT813
817	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT814
818	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT815
819	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT816
820	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT817
821	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT818
822	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT819
824	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT821
825	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT822
826	3-SoCal_Refineries (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT823
827	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT824
828	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT825
829	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT826
830	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT827
831	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT828
832	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT829
834	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT831
835	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT832
836	3-SoCal_Refineries (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT833
837	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT834
838	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT835
839	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT836
840	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT837
841	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT838
842	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT839

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
844	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT841
845	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT842
846	3-SoCal_Refineries (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT843
847	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT844
848	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT845
849	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT846
850	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT847
851	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT848
852	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT849
854	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT851
855	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT852
856	3-SoCal_Refineries (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT853
997	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT994
998	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT995
999	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT996
1000	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT997
1001	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT998
1002	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT999
1004	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1001
1005	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1002
1006	4-SoCal_Refineries (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1003
1007	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1004
1008	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1005
1009	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1006
1010	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1007
1011	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1008
1012	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1009
1014	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1011
1015	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1012
1016	4-SoCal_Refineries (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1013
1017	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1014
1018	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1015
1019	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1016
1020	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1017
1021	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1018
1022	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1019
1024	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1021
1025	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1022
1026	4-SoCal_Refineries (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1023
1027	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1024
1028	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1025
1029	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1026

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1030	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1027
1031	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1028
1032	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1029
1034	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1031
1035	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1032
1036	4-SoCal_Refineries (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1033
1037	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1034
1038	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1035
1039	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1036
1040	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1037
1041	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1038
1042	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1039
1044	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1041
1045	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1042
1046	4-SoCal_Refineries (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1043
1047	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1044
1048	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1045
1049	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1046
1050	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1047
1051	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1048
1052	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1049
1054	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1051
1055	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1052
1056	4-SoCal_Refineries (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1053
1057	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1054
1058	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1055
1059	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1056
1060	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1057
1061	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1058
1062	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1059
1064	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1061
1065	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1062
1066	4-SoCal_Refineries (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1063
1067	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1064
1068	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1065
1069	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1066
1070	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1067
1071	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1068
1072	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1069
1074	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1071
1075	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1072
1076	4-SoCal_Refineries (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1073

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1077	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1074
1078	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1075
1079	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1076
1080	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1077
1081	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1078
1082	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1079
1084	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1081
1085	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1082
1086	4-SoCal_Refineries (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1083
1087	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1084
1088	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1085
1089	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1086
1090	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1087
1091	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1088
1092	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1089
1094	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1091
1095	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1092
1096	4-SoCal_Refineries (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1093
1097	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1094
1098	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1095
1099	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1096
1100	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1097
1101	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1098
1102	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1099
1104	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1101
1105	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1102
1106	4-SoCal_Refineries (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1103
1107	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1104
1108	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1105
1109	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1106
1110	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1107
1111	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1108
1112	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1109
1114	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1111
1115	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1112
1116	4-SoCal_Refineries (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1113
1117	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1114
1118	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1115
1119	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1116
1120	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1117
1121	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1118
1122	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1119

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1124	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1121
1125	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1122
1126	4-SoCal_Refineries (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1123
1127	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1124
1128	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1125
1129	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1126
1130	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1127
1131	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1128
1132	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1129
1134	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1131
1135	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1132
1136	4-SoCal_Refineries (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1133
1137	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1134
1138	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1135
1139	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1136
1140	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1137
1141	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1138
1142	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1139
1144	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1141
1145	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1142
1146	4-SoCal_Refineries (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1143
1147	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1144
1148	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1145
1149	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1146
1150	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1147
1151	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1148
1152	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1149
1154	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1151
1155	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1152
1156	4-SoCal_Refineries (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1153
1297	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1294
1298	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1295
1299	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1296
1300	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1297
1301	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1298
1302	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1299
1304	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1301
1305	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1302
1306	5-SoCal_Refineries (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1303
1307	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1304
1308	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1305
1309	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1306

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
1310	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1307
1311	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1308
1312	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1309
1314	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1311
1315	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1312
1316	5-SoCal_Refineries (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1313
1317	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1314
1318	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1315
1319	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1316
1320	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1317
1321	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1318
1322	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1319
1324	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1321
1325	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1322
1326	5-SoCal_Refineries (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1323
1327	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1324
1328	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1325
1329	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1326
1330	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1327
1331	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1328
1332	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1329
1334	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1331
1335	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1332
1336	5-SoCal_Refineries (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1333
1337	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1334
1338	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1335
1339	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1336
1340	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1337
1341	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1338
1342	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1339
1344	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1341
1345	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1342
1346	5-SoCal_Refineries (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1343
1347	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1344
1348	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1345
1349	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1346
1350	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1347
1351	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1348
1352	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1349
1354	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1351
1355	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1352
1356	5-SoCal_Refineries (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1353

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1357	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1354
1358	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1355
1359	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1356
1360	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1357
1361	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1358
1362	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1359
1364	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1361
1365	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1362
1366	5-SoCal_Refineries (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1363
1367	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1364
1368	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1365
1369	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1366
1370	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1367
1371	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1368
1372	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1369
1374	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1371
1375	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1372
1376	5-SoCal_Refineries (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1373
1377	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1374
1378	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1375
1379	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1376
1380	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1377
1381	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1378
1382	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1379
1384	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1381
1385	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1382
1386	5-SoCal_Refineries (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1383
1387	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1384
1388	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1385
1389	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1386
1390	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1387
1391	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1388
1392	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1389
1394	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1391
1395	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1392
1396	5-SoCal_Refineries (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1393
1397	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1394
1398	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1395
1399	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1396
1400	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1397
1401	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1398
1402	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1399

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1404	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1401
1405	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1402
1406	5-SoCal_Refineries (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1403
1407	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1404
1408	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1405
1409	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1406
1410	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1407
1411	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1408
1412	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1409
1414	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1411
1415	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1412
1416	5-SoCal_Refineries (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1413
1417	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1414
1418	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1415
1419	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1416
1420	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1417
1421	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1418
1422	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1419
1424	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1421
1425	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1422
1426	5-SoCal_Refineries (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1423
1427	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1424
1428	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1425
1429	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1426
1430	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1427
1431	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1428
1432	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1429
1434	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1431
1435	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1432
1436	5-SoCal_Refineries (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1433
1437	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1434
1438	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1435
1439	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1436
1440	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1437
1441	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1438
1442	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1439
1444	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1441
1445	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1442
1446	5-SoCal_Refineries (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1443
1447	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1444
1448	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1445
1449	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1446

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1450	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1447
1451	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1448
1452	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1449
1454	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1451
1455	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1452
1456	5-SoCal_Refineries (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1453
1597	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1594
1598	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1595
1599	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1596
1600	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1597
1601	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1598
1602	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1599
1604	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1601
1605	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1602
1606	6-SoCal_Refineries (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1603
1607	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1604
1608	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1605
1609	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1606
1610	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1607
1611	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1608
1612	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1609
1614	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1611
1615	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1612
1616	6-SoCal_Refineries (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1613
1617	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1614
1618	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1615
1619	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1616
1620	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1617
1621	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1618
1622	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1619
1624	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1621
1625	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1622
1626	6-SoCal_Refineries (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1623
1627	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1624
1628	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1625
1629	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1626
1630	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1627
1631	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1628
1632	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1629
1634	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1631
1635	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1632
1636	6-SoCal_Refineries (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1633

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	Fuel Type	Parameter	Value	Reference
1637	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1634
1638	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1635
1639	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1636
1640	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1637
1641	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1638
1642	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1639
1644	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1641
1645	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1642
1646	6-SoCal_Refineries (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1643
1647	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1644
1648	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1645
1649	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1646
1650	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1647
1651	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1648
1652	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1649
1654	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1651
1655	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1652
1656	6-SoCal_Refineries (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1653
1657	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1654
1658	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1655
1659	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1656
1660	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1657
1661	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1658
1662	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1659
1664	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1661
1665	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1662
1666	6-SoCal_Refineries (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1663
1667	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1664
1668	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1665
1669	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1666
1670	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1667
1671	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1668
1672	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1669
1674	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1671
1675	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1672
1676	6-SoCal_Refineries (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1673
1677	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1674
1678	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1675
1679	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1676
1680	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1677
1681	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1678
1682	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1679

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1684	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1681
1685	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1682
1686	6-SoCal_Refineries (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1683
1687	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1684
1688	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1685
1689	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1686
1690	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1687
1691	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1688
1692	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1689
1694	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1691
1695	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1692
1696	6-SoCal_Refineries (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1693
1697	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1694
1698	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1695
1699	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1696
1700	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1697
1701	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1698
1702	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1699
1704	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1701
1705	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1702
1706	6-SoCal_Refineries (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1703
1707	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1704
1708	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1705
1709	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1706
1710	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1707
1711	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1708
1712	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1709
1714	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1711
1715	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1712
1716	6-SoCal_Refineries (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1713
1717	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1714
1718	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1715
1719	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1716
1720	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1717
1721	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1718
1722	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1719
1724	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1721
1725	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1722
1726	6-SoCal_Refineries (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1723
1727	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1724
1728	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1725
1729	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1726

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1730	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1727
1731	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1728
1732	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1729
1734	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1731
1735	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1732
1736	6-SoCal_Refineries (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1733
1737	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1734
1738	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1735
1739	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1736
1740	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1737
1741	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1738
1742	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1739
1744	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1741
1745	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1742
1746	6-SoCal_Refineries (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1743
1747	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1744
1748	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1745
1749	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1746
1750	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1747
1751	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1748
1752	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1749
1754	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1751
1755	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1752
1756	6-SoCal_Refineries (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1753
1897	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1894
1898	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1895
1899	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1896
1900	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1897
1901	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1898
1902	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1899
1904	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1901
1905	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1902
1906	7-SoCal_Refineries (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1903
1907	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1904
1908	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1905
1909	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1906
1910	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1907
1911	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1908
1912	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1909
1914	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1911
1915	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1912
1916	7-SoCal_Refineries (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1913

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
1917	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1914
1918	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	PRJ H2 Demand (MMBtu/yr)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1915
1919	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1916
1920	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1917
1921	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	BSL NG Consumption (MMBtu/yr)	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1918
1922	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1919
1924	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1921
1925	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1922
1926	7-SoCal_Refineries (MidModerate_ICEngines)	2032_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1923
1927	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1924
1928	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	PRJ H2 Demand (MMBtu/yr)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1925
1929	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1926
1930	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1927
1931	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	BSL NG Consumption (MMBtu/yr)	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1928
1932	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1929
1934	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1931
1935	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1932
1936	7-SoCal_Refineries (MidModerate_ICEngines)	2033_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1933
1937	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1934
1938	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	PRJ H2 Demand (MMBtu/yr)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1935
1939	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1936
1940	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1937
1941	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	BSL NG Consumption (MMBtu/yr)	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1938
1942	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1939
1944	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1941
1945	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1942
1946	7-SoCal_Refineries (MidModerate_ICEngines)	2034_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1943
1947	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1944
1948	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	PRJ H2 Demand (MMBtu/yr)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1945
1949	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1946
1950	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1947
1951	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	BSL NG Consumption (MMBtu/yr)	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1948
1952	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1949
1954	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1951
1955	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1952
1956	7-SoCal_Refineries (MidModerate_ICEngines)	2035_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1953
1957	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1954
1958	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	PRJ H2 Demand (MMBtu/yr)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1955
1959	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1956
1960	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1957
1961	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	BSL NG Consumption (MMBtu/yr)	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1958
1962	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1959

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	**Fuel Type**	**Parameter**	**Value**	**Reference**
1964	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1961
1965	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1962
1966	7-SoCal_Refineries (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1963
1967	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1964
1968	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1965
1969	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1966
1970	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1967
1971	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1968
1972	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1969
1974	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1971
1975	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1972
1976	7-SoCal_Refineries (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1973
1977	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1974
1978	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1975
1979	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1976
1980	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1977
1981	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1978
1982	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1979
1984	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1981
1985	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1982
1986	7-SoCal_Refineries (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1983
1987	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1984
1988	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1985
1989	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1986
1990	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1987
1991	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1988
1992	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1989
1994	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1991
1995	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1992
1996	7-SoCal_Refineries (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1993
1997	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1994
1998	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1995
1999	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1996
2000	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1997
2001	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1998
2002	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT1999
2004	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2001
2005	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2002
2006	7-SoCal_Refineries (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2003
2007	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2004
2008	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2005
2009	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2006

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2010	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2007
2011	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2008
2012	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2009
2014	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2011
2015	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2012
2016	7-SoCal_Refineries (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2013
2017	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2014
2018	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2015
2019	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2016
2020	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2017
2021	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2018
2022	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2019
2024	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2021
2025	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2022
2026	7-SoCal_Refineries (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2023
2027	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2024
2028	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2025
2029	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2026
2030	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2027
2031	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2028
2032	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2029
2034	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2031
2035	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2032
2036	7-SoCal_Refineries (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2033
2037	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2034
2038	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2035
2039	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2036
2040	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2037
2041	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2038
2042	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2039
2044	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2041
2045	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2042
2046	7-SoCal_Refineries (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2043
2047	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2044
2048	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2045
2049	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2046
2050	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2047
2051	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2048
2052	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2049
2054	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2051
2055	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2052
2056	7-SoCal_Refineries (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2053

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2197	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2194
2198	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2195
2199	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2196
2200	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2197
2201	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2198
2202	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2199
2204	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2201
2205	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2202
2206	8-SoCal_Refineries (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2203
2207	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2204
2208	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2205
2209	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2206
2210	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2207
2211	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2208
2212	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2209
2214	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2211
2215	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2212
2216	8-SoCal_Refineries (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2213
2217	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2214
2218	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2215
2219	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2216
2220	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2217
2221	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2218
2222	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2219
2224	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2221
2225	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2222
2226	8-SoCal_Refineries (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2223
2227	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2224
2228	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2225
2229	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2226
2230	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2227
2231	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2228
2232	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2229
2234	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2231
2235	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2232
2236	8-SoCal_Refineries (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2233
2237	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2234
2238	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2235
2239	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2236
2240	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2237
2241	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2238
2242	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2239

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2244	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2241
2245	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2242
2246	8-SoCal_Refineries (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2243
2247	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2244
2248	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2245
2249	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2246
2250	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2247
2251	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2248
2252	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2249
2254	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2251
2255	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2252
2256	8-SoCal_Refineries (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2253
2257	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2254
2258	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2255
2259	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2256
2260	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2257
2261	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2258
2262	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2259
2264	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2261
2265	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2262
2266	8-SoCal_Refineries (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2263
2267	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2264
2268	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2265
2269	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2266
2270	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2267
2271	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2268
2272	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2269
2274	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2271
2275	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2272
2276	8-SoCal_Refineries (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2273
2277	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2274
2278	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2275
2279	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2276
2280	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2277
2281	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2278
2282	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2279
2284	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2281
2285	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2282
2286	8-SoCal_Refineries (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2283
2287	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2284
2288	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2285
2289	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2286

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2290	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2287
2291	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2288
2292	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2289
2294	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2291
2295	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2292
2296	8-SoCal_Refineries (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2293
2297	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2294
2298	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2295
2299	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2296
2300	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2297
2301	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2298
2302	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2299
2304	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2301
2305	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2302
2306	8-SoCal_Refineries (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2303
2307	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2304
2308	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2305
2309	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2306
2310	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2307
2311	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2308
2312	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2309
2314	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2311
2315	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2312
2316	8-SoCal_Refineries (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2313
2317	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2314
2318	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2315
2319	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2316
2320	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2317
2321	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2318
2322	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2319
2324	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2321
2325	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2322
2326	8-SoCal_Refineries (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2323
2327	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2324
2328	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2325
2329	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2326
2330	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2327
2331	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2328
2332	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2329
2334	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2331
2335	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2332
2336	8-SoCal_Refineries (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2333

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2337	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2334
2338	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2335
2339	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2336
2340	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2337
2341	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2338
2342	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2339
2344	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2341
2345	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2342
2346	8-SoCal_Refineries (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2343
2347	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2344
2348	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2345
2349	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2346
2350	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2347
2351	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2348
2352	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2349
2354	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2351
2355	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2352
2356	8-SoCal_Refineries (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2353
2497	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2494
2498	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	13893269.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2495
2499	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2496
2500	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2497
2501	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2498
2502	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2499
2504	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2501
2505	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2502
2506	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2503
2507	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2504
2508	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	16121807.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2505
2509	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2506
2510	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2507
2511	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2508
2512	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2509
2514	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2511
2515	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2512
2516	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2513
2517	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2514
2518	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	18069173.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2515
2519	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2516
2520	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2517
2521	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2518
2522	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2519

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
2524	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2521
2525	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2522
2526	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2523
2527	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2524
2528	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	19986972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2525
2529	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2526
2530	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2527
2531	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2528
2532	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2529
2534	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2531
2535	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2532
2536	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2533
2537	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2534
2538	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	21797159.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2535
2539	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2536
2540	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2537
2541	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2538
2542	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2539
2544	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2541
2545	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2542
2546	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2543
2547	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2544
2548	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	23325367.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2545
2549	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2546
2550	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2547
2551	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2548
2552	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2549
2554	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2551
2555	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2552
2556	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2553
2557	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2554
2558	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	24103493.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2555
2559	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2556
2560	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2557
2561	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2558
2562	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2559
2564	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2561
2565	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2562
2566	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2563
2567	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2564
2568	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	26350860.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2565
2569	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2566

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
2570	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2567
2571	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	BSL NG Consumption (MMBtu/yr)	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2568
2572	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2569
2574	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2571
2575	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2572
2576	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2037_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2573
2577	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2574
2578	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	27461405.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2575
2579	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2576
2580	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2577
2581	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2578
2582	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2579
2584	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2581
2585	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2582
2586	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2038_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2583
2587	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2584
2588	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	PRJ H2 Demand (MMBtu/yr)	28534687.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2585
2589	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2586
2590	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2587
2591	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	BSL NG Consumption (MMBtu/yr)	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2588
2592	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2589
2594	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2591
2595	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2592
2596	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2039_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2593
2597	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2594
2598	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	29776846.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2595
2599	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2596
2600	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2597
2601	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2598
2602	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2599
2604	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2601
2605	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2602
2606	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2603
2607	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2604
2608	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	30602050.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2605
2609	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2606
2610	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2607
2611	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	BSL NG Consumption (MMBtu/yr)	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2608
2612	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2609
2614	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2611
2615	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2612
2616	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2041_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2613

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
2617	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2614
2618	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	31563170.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2615
2619	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2616
2620	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2617
2621	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2618
2622	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2619
2624	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2621
2625	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2622
2626	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2623
2627	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2624
2628	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	32724765.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2625
2629	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2626
2630	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2627
2631	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2628
2632	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2629
2634	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2631
2635	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2632
2636	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2633
2637	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2634
2638	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	33632829.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2635
2639	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2636
2640	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2637
2641	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2638
2642	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2639
2644	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2641
2645	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2642
2646	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2643
2647	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	21.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2644
2648	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	34531602.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2645
2649	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2646
2650	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2647
2651	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2648
2652	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2649
2654	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2651
2655	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2652
2656	9-SoCal_Refineries (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2653
2797	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2794
2798	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	13893269.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2795
2799	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2796
2800	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2797
2801	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2798
2802	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2799

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2804	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2801
2805	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2802
2806	10-SoCal_Refineries (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2803
2807	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2804
2808	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	16121807.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2805
2809	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2806
2810	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2807
2811	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2808
2812	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2809
2814	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2811
2815	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2812
2816	10-SoCal_Refineries (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2813
2817	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2814
2818	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	18069173.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2815
2819	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2816
2820	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2817
2821	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2818
2822	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2819
2824	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2821
2825	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2822
2826	10-SoCal_Refineries (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2823
2827	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2824
2828	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	19986972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2825
2829	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2826
2830	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2827
2831	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2828
2832	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2829
2834	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2831
2835	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2832
2836	10-SoCal_Refineries (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2833
2837	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2834
2838	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	21797159.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2835
2839	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2836
2840	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2837
2841	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2838
2842	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2839
2844	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2841
2845	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2842
2846	10-SoCal_Refineries (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2843
2847	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2844
2848	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	23325367.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2845
2849	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2846

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2850	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2847
2851	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2848
2852	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2849
2854	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2851
2855	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2852
2856	10-SoCal_Refineries (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2853
2857	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2854
2858	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	24103493.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2855
2859	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2856
2860	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2857
2861	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2858
2862	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2859
2864	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2861
2865	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2862
2866	10-SoCal_Refineries (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2863
2867	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2864
2868	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	26350860.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2865
2869	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2866
2870	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2867
2871	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2868
2872	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2869
2874	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2871
2875	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2872
2876	10-SoCal_Refineries (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2873
2877	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2874
2878	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	27461405.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2875
2879	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2876
2880	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2877
2881	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2878
2882	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2879
2884	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2881
2885	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2882
2886	10-SoCal_Refineries (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2883
2887	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2884
2888	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	28534687.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2885
2889	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2886
2890	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2887
2891	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2888
2892	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2889
2894	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2891
2895	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2892
2896	10-SoCal_Refineries (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2893

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2897	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2894
2898	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	29776846.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2895
2899	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2896
2900	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2897
2901	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2898
2902	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2899
2904	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2901
2905	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2902
2906	10-SoCal_Refineries (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2903
2907	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2904
2908	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	30602050.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2905
2909	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2906
2910	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2907
2911	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2908
2912	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2909
2914	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2911
2915	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2912
2916	10-SoCal_Refineries (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2913
2917	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2914
2918	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	31563170.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2915
2919	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2916
2920	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2917
2921	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2918
2922	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2919
2924	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2921
2925	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2922
2926	10-SoCal_Refineries (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2923
2927	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2924
2928	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	32724765.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2925
2929	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2926
2930	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2927
2931	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2928
2932	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2929
2934	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2931
2935	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2932
2936	10-SoCal_Refineries (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2933
2937	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2934
2938	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	33632829.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2935
2939	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2936
2940	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2937
2941	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2938
2942	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2939

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2944	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2941
2945	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2942
2946	10-SoCal_Refineries (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2943
2947	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2944
2948	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	34531602.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2945
2949	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2946
2950	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2947
2951	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2948
2952	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2949
2954	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2951
2955	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2952
2956	10-SoCal_Refineries (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT2953
3097	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3094
3098	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	13893269.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3095
3099	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3096
3100	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3097
3101	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3098
3102	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3099
3104	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3101
3105	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3102
3106	11-SoCal_Refineries (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3103
3107	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3104
3108	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	16121807.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3105
3109	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3106
3110	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3107
3111	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3108
3112	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3109
3114	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3111
3115	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3112
3116	11-SoCal_Refineries (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3113
3117	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3114
3118	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	18069173.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3115
3119	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3116
3120	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3117
3121	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3118
3122	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3119
3124	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3121
3125	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3122
3126	11-SoCal_Refineries (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3123
3127	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3124
3128	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	19986972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3125
3129	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3126

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
3130	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3127
3131	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3128
3132	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3129
3134	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3131
3135	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3132
3136	11-SoCal_Refineries (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3133
3137	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3134
3138	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	21797159.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3135
3139	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3136
3140	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3137
3141	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3138
3142	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3139
3144	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3141
3145	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3142
3146	11-SoCal_Refineries (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3143
3147	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3144
3148	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	23325367.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3145
3149	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3146
3150	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3147
3151	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3148
3152	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3149
3154	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3151
3155	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3152
3156	11-SoCal_Refineries (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3153
3157	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3154
3158	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	24103493.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3155
3159	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3156
3160	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3157
3161	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3158
3162	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3159
3164	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3161
3165	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3162
3166	11-SoCal_Refineries (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3163
3167	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3164
3168	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	26350860.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3165
3169	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3166
3170	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3167
3171	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3168
3172	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3169
3174	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3171
3175	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3172
3176	11-SoCal_Refineries (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3173

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3177	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3174
3178	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	27461405.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3175
3179	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3176
3180	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3177
3181	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3178
3182	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3179
3184	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3181
3185	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3182
3186	11-SoCal_Refineries (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3183
3187	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3184
3188	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	28534687.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3185
3189	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3186
3190	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3187
3191	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3188
3192	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3189
3194	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3191
3195	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3192
3196	11-SoCal_Refineries (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3193
3197	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3194
3198	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	29776846.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3195
3199	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3196
3200	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3197
3201	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3198
3202	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3199
3204	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3201
3205	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3202
3206	11-SoCal_Refineries (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3203
3207	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3204
3208	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	30602050.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3205
3209	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3206
3210	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3207
3211	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3208
3212	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3209
3214	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3211
3215	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3212
3216	11-SoCal_Refineries (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3213
3217	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3214
3218	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	31563170.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3215
3219	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3216
3220	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3217
3221	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3218
3222	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3219

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3224	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3221
3225	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3222
3226	11-SoCal_Refineries (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3223
3227	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3224
3228	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	32724765.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3225
3229	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3226
3230	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3227
3231	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3228
3232	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3229
3234	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3231
3235	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3232
3236	11-SoCal_Refineries (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3233
3237	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3234
3238	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	33632829.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3235
3239	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3236
3240	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3237
3241	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3238
3242	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3239
3244	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3241
3245	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3242
3246	11-SoCal_Refineries (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3243
3247	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3244
3248	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	34531602.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3245
3249	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3246
3250	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3247
3251	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3248
3252	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3249
3254	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3251
3255	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3252
3256	11-SoCal_Refineries (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3253
3397	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3394
3398	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	13893269.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3395
3399	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3396
3400	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3397
3401	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119920546.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3398
3402	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3399
3404	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3401
3405	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3402
3406	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3403
3407	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3404
3408	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	16121807.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3405
3409	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3406

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3410	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3407
3411	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	119578262.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3408
3412	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3409
3414	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3411
3415	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3412
3416	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3413
3417	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3414
3418	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	18069173.76	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3415
3419	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3416
3420	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3417
3421	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	118220721.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3418
3422	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3419
3424	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3421
3425	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3422
3426	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3423
3427	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3424
3428	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	19986972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3425
3429	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3426
3430	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3427
3431	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117596313.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3428
3432	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3429
3434	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3431
3435	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3432
3436	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3433
3437	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3434
3438	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	21797159.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3435
3439	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3436
3440	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3437
3441	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	117046363.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3438
3442	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3439
3444	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3441
3445	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3442
3446	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3443
3447	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3444
3448	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	23325367.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3445
3449	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3446
3450	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3447
3451	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	115656653.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3448
3452	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3449
3454	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3451
3455	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3452
3456	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3453

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3457	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3454
3458	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	24103493.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3455
3459	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3456
3460	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3457
3461	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406622.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3458
3462	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3459
3464	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3461
3465	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3462
3466	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3463
3467	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3464
3468	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	26350860.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3465
3469	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3466
3470	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3467
3471	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	114419638.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3468
3472	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3469
3474	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3471
3475	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3472
3476	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3473
3477	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3474
3478	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	27461405.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3475
3479	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3476
3480	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3477
3481	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	112756225.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3478
3482	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3479
3484	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3481
3485	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3482
3486	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3483
3487	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3484
3488	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	28534687.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3485
3489	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3486
3490	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3487
3491	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	111406870.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3488
3492	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3489
3494	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3491
3495	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3492
3496	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3493
3497	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3494
3498	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	29776846.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3495
3499	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3496
3500	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3497
3501	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	110759064.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3498
3502	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3499

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3504	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3501
3505	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3502
3506	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3503
3507	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3504
3508	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	30602050.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3505
3509	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3506
3510	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3507
3511	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	108931199.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3508
3512	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3509
3514	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3511
3515	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3512
3516	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3513
3517	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3514
3518	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	31563170.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3515
3519	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3516
3520	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3517
3521	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107937336.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3518
3522	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3519
3524	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3521
3525	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3522
3526	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3523
3527	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3524
3528	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	32724765.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3525
3529	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3526
3530	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3527
3531	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107879260.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3528
3532	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3529
3534	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3531
3535	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3532
3536	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3533
3537	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3534
3538	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	33632829.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3535
3539	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3536
3540	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3537
3541	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	107202151.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3538
3542	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3539
3544	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3541
3545	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3542
3546	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3543
3547	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	78.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3544
3548	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	34531602.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3545
3549	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3546

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
3550	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3547
3551	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	106708338.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3548
3552	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3549
3554	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3551
3555	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3552
3556	12-SoCal_Refineries (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3553
3697	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3694
3698	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1338727.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3695
3699	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3696
3700	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3697
3701	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3698
3702	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3699
3704	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3701
3705	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3702
3706	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3703
3707	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3704
3708	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1537080.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3705
3709	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3706
3710	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3707
3711	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3708
3712	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3709
3714	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3711
3715	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3712
3716	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3713
3717	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3714
3718	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1720576.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3715
3719	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3716
3720	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3717
3721	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3718
3722	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3719
3724	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3721
3725	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3722
3726	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3723
3727	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3724
3728	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1889746.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3725
3729	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3726
3730	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3727
3731	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3728
3732	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3729
3734	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3731
3735	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3732
3736	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3733

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3737	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3734
3738	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2045242.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3735
3739	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3736
3740	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3737
3741	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3738
3742	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3739
3744	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3741
3745	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3742
3746	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3743
3747	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3744
3748	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2187824.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3745
3749	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3746
3750	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3747
3751	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3748
3752	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3749
3754	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3751
3755	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3752
3756	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3753
3757	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3754
3758	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2318333.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3755
3759	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3756
3760	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3757
3761	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3758
3762	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3759
3764	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3761
3765	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3762
3766	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3763
3767	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3764
3768	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2437654.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3765
3769	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3766
3770	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3767
3771	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3768
3772	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3769
3774	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3771
3775	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3772
3776	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3773
3777	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3774
3778	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2546684.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3775
3779	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3776
3780	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3777
3781	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3778
3782	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3779

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3784	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3781
3785	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3782
3786	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3783
3787	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3784
3788	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2646305.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3785
3789	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3786
3790	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3787
3791	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3788
3792	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3789
3794	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3791
3795	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3792
3796	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3793
3797	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3794
3798	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2803821.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3795
3799	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3796
3800	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3797
3801	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3798
3802	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3799
3804	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3801
3805	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3802
3806	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3803
3807	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3804
3808	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2948883.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3805
3809	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3806
3810	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3807
3811	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3808
3812	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3809
3814	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3811
3815	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3812
3816	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3813
3817	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3814
3818	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3082543.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3815
3819	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3816
3820	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3817
3821	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3818
3822	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3819
3824	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3821
3825	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3822
3826	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3823
3827	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3824
3828	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3205778.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3825
3829	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3826

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3830	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3827
3831	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3828
3832	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3829
3834	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3831
3835	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3832
3836	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3833
3837	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3834
3838	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3319485.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3835
3839	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3836
3840	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3837
3841	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3838
3842	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3839
3844	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3841
3845	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3842
3846	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3843
3847	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3844
3848	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3424484.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3845
3849	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3846
3850	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3847
3851	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3848
3852	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3849
3854	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3851
3855	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3852
3856	13-SoCal_FoodBeverage (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3853
3997	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3994
3998	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1338727.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3995
3999	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3996
4000	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3997
4001	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3998
4002	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT3999
4004	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4001
4005	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4002
4006	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4003
4007	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4004
4008	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1537080.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4005
4009	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4006
4010	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4007
4011	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4008
4012	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4009
4014	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4011
4015	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4012
4016	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4013

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
4017	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4014
4018	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1720576.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4015
4019	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4016
4020	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4017
4021	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4018
4022	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4019
4024	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4021
4025	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4022
4026	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4023
4027	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4024
4028	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1889746.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4025
4029	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4026
4030	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4027
4031	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4028
4032	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4029
4034	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4031
4035	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4032
4036	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4033
4037	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4034
4038	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2045242.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4035
4039	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4036
4040	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4037
4041	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4038
4042	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4039
4044	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4041
4045	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4042
4046	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4043
4047	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4044
4048	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2187824.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4045
4049	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4046
4050	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4047
4051	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4048
4052	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4049
4054	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4051
4055	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4052
4056	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4053
4057	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4054
4058	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2318333.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4055
4059	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4056
4060	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4057
4061	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4058
4062	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4059

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
4064	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4061
4065	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4062
4066	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2036_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4063
4067	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4064
4068	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	PRJ H2 Demand (MMBtu/yr)	2437654.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4065
4069	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4066
4070	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4067
4071	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	BSL NG Consumption (MMBtu/yr)	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4068
4072	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4069
4074	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4071
4075	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4072
4076	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2037_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4073
4077	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4074
4078	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	2546684.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4075
4079	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4076
4080	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4077
4081	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4078
4082	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4079
4084	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4081
4085	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4082
4086	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2038_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4083
4087	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4084
4088	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	PRJ H2 Demand (MMBtu/yr)	2646305.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4085
4089	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4086
4090	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4087
4091	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	BSL NG Consumption (MMBtu/yr)	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4088
4092	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4089
4094	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4091
4095	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4092
4096	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2039_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4093
4097	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4094
4098	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	2803821.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4095
4099	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4096
4100	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4097
4101	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4098
4102	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4099
4104	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4101
4105	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4102
4106	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4103
4107	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4104
4108	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	2948883.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4105
4109	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4106

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4110	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4107
4111	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4108
4112	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4109
4114	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4111
4115	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4112
4116	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4113
4117	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4114
4118	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3082543.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4115
4119	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4116
4120	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4117
4121	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4118
4122	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4119
4124	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4121
4125	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4122
4126	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4123
4127	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4124
4128	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3205778.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4125
4129	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4126
4130	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4127
4131	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4128
4132	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4129
4134	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4131
4135	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4132
4136	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4133
4137	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4134
4138	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3319485.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4135
4139	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4136
4140	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4137
4141	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4138
4142	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4139
4144	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4141
4145	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4142
4146	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4143
4147	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4144
4148	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3424484.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4145
4149	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4146
4150	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4147
4151	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4148
4152	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4149
4154	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4151
4155	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4152
4156	14-SoCal_FoodBeverage (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4153

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4297	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4294
4298	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1338727.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4295
4299	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4296
4300	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4297
4301	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4298
4302	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4299
4304	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4301
4305	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4302
4306	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4303
4307	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4304
4308	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1537080.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4305
4309	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4306
4310	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4307
4311	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4308
4312	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4309
4314	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4311
4315	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4312
4316	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4313
4317	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4314
4318	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1720576.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4315
4319	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4316
4320	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4317
4321	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4318
4322	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4319
4324	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4321
4325	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4322
4326	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4323
4327	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4324
4328	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1889746.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4325
4329	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4326
4330	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4327
4331	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4328
4332	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4329
4334	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4331
4335	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4332
4336	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4333
4337	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4334
4338	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2045242.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4335
4339	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4336
4340	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4337
4341	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4338
4342	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4339

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4344	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4341
4345	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4342
4346	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4343
4347	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4344
4348	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2187824.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4345
4349	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4346
4350	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4347
4351	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4348
4352	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4349
4354	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4351
4355	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4352
4356	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4353
4357	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4354
4358	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2318333.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4355
4359	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4356
4360	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4357
4361	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4358
4362	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4359
4364	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4361
4365	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4362
4366	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4363
4367	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4364
4368	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2437654.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4365
4369	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4366
4370	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4367
4371	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4368
4372	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4369
4374	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4371
4375	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4372
4376	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4373
4377	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4374
4378	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2546684.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4375
4379	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4376
4380	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4377
4381	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4378
4382	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4379
4384	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4381
4385	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4382
4386	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4383
4387	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4384
4388	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2646305.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4385
4389	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4386

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4390	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4387
4391	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4388
4392	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4389
4394	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4391
4395	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4392
4396	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4393
4397	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4394
4398	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2803821.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4395
4399	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4396
4400	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4397
4401	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4398
4402	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4399
4404	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4401
4405	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4402
4406	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4403
4407	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4404
4408	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2948883.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4405
4409	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4406
4410	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4407
4411	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4408
4412	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4409
4414	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4411
4415	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4412
4416	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4413
4417	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4414
4418	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3082543.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4415
4419	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4416
4420	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4417
4421	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4418
4422	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4419
4424	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4421
4425	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4422
4426	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4423
4427	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4424
4428	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3205778.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4425
4429	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4426
4430	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4427
4431	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4428
4432	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4429
4434	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4431
4435	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4432
4436	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4433

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4437	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4434
4438	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3319485.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4435
4439	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4436
4440	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4437
4441	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4438
4442	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4439
4444	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4441
4445	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4442
4446	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4443
4447	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4444
4448	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3424484.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4445
4449	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4446
4450	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4447
4451	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4448
4452	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4449
4454	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4451
4455	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4452
4456	15-SoCal_FoodBeverage (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4453
4597	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4594
4598	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1338727.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4595
4599	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4596
4600	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4597
4601	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4598
4602	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4599
4604	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4601
4605	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4602
4606	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4603
4607	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4604
4608	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1537080.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4605
4609	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4606
4610	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4607
4611	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4608
4612	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4609
4614	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4611
4615	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4612
4616	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4613
4617	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4614
4618	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1720576.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4615
4619	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4616
4620	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4617
4621	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4618
4622	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4619

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
4624	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4621
4625	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4622
4626	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2032_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4623
4627	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4624
4628	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	PRJ H2 Demand (MMBtu/yr)	1889746.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4625
4629	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4626
4630	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4627
4631	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	BSL NG Consumption (MMBtu/yr)	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4628
4632	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4629
4634	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4631
4635	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4632
4636	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2033_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4633
4637	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4634
4638	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	PRJ H2 Demand (MMBtu/yr)	2045242.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4635
4639	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4636
4640	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4637
4641	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	BSL NG Consumption (MMBtu/yr)	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4638
4642	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4639
4644	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4641
4645	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4642
4646	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2034_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4643
4647	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4644
4648	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	PRJ H2 Demand (MMBtu/yr)	2187824.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4645
4649	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4646
4650	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4647
4651	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	BSL NG Consumption (MMBtu/yr)	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4648
4652	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4649
4654	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4651
4655	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4652
4656	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2035_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4653
4657	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4654
4658	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	PRJ H2 Demand (MMBtu/yr)	2318333.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4655
4659	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4656
4660	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4657
4661	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	BSL NG Consumption (MMBtu/yr)	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4658
4662	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4659
4664	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4661
4665	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4662
4666	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2036_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4663
4667	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4664
4668	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	PRJ H2 Demand (MMBtu/yr)	2437654.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4665
4669	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4666

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4670	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4667
4671	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4668
4672	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4669
4674	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4671
4675	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4672
4676	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4673
4677	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4674
4678	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2546684.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4675
4679	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4676
4680	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4677
4681	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4678
4682	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4679
4684	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4681
4685	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4682
4686	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4683
4687	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4684
4688	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2646305.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4685
4689	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4686
4690	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4687
4691	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4688
4692	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4689
4694	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4691
4695	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4692
4696	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4693
4697	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4694
4698	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2803821.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4695
4699	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4696
4700	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4697
4701	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4698
4702	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4699
4704	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4701
4705	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4702
4706	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4703
4707	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4704
4708	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2948883.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4705
4709	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4706
4710	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4707
4711	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4708
4712	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4709
4714	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4711
4715	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4712
4716	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4713

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4717	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4714
4718	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3082543.87	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4715
4719	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4716
4720	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4717
4721	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4718
4722	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4719
4724	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4721
4725	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4722
4726	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4723
4727	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4724
4728	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3205778.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4725
4729	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4726
4730	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4727
4731	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4728
4732	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4729
4734	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4731
4735	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4732
4736	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4733
4737	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4734
4738	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3319485.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4735
4739	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4736
4740	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4737
4741	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4738
4742	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4739
4744	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4741
4745	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4742
4746	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4743
4747	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4744
4748	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3424484.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4745
4749	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4746
4750	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4747
4751	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4748
4752	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4749
4754	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4751
4755	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4752
4756	16-SoCal_FoodBeverage (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4753
4897	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4894
4898	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4895
4899	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4896
4900	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4897
4901	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4898
4902	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4899

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4904	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4901
4905	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4902
4906	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4903
4907	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4904
4908	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4905
4909	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4906
4910	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4907
4911	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4908
4912	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4909
4914	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4911
4915	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4912
4916	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4913
4917	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4914
4918	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4915
4919	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4916
4920	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4917
4921	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4918
4922	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4919
4924	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4921
4925	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4922
4926	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4923
4927	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4924
4928	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4925
4929	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4926
4930	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4927
4931	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4928
4932	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4929
4934	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4931
4935	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4932
4936	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4933
4937	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4934
4938	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4935
4939	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4936
4940	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4937
4941	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4938
4942	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4939
4944	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4941
4945	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4942
4946	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4943
4947	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4944
4948	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4945
4949	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4946

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4950	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4947
4951	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4948
4952	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4949
4954	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4951
4955	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4952
4956	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4953
4957	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4954
4958	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4955
4959	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4956
4960	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4957
4961	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4958
4962	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4959
4964	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4961
4965	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4962
4966	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4963
4967	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4964
4968	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4965
4969	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4966
4970	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4967
4971	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4968
4972	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4969
4974	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4971
4975	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4972
4976	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4973
4977	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4974
4978	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4975
4979	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4976
4980	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4977
4981	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4978
4982	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4979
4984	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4981
4985	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4982
4986	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4983
4987	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4984
4988	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4985
4989	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4986
4990	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4987
4991	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4988
4992	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4989
4994	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4991
4995	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4992
4996	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4993

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4997	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4994
4998	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4995
4999	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4996
5000	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4997
5001	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4998
5002	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT4999
5004	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5001
5005	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5002
5006	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5003
5007	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5004
5008	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5005
5009	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5006
5010	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5007
5011	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5008
5012	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5009
5014	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5011
5015	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5012
5016	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5013
5017	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5014
5018	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5015
5019	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5016
5020	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5017
5021	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5018
5022	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5019
5024	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5021
5025	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5022
5026	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5023
5027	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5024
5028	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5025
5029	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5026
5030	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5027
5031	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5028
5032	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5029
5034	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5031
5035	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5032
5036	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5033
5037	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5034
5038	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5035
5039	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5036
5040	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5037
5041	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5038
5042	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5039

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5044	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5041
5045	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5042
5046	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5043
5047	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5044
5048	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5045
5049	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5046
5050	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5047
5051	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5048
5052	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5049
5054	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5051
5055	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5052
5056	17-SoCal_FoodBeverage (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5053
5197	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5194
5198	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5195
5199	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5196
5200	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5197
5201	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5198
5202	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5199
5204	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5201
5205	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5202
5206	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5203
5207	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5204
5208	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5205
5209	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5206
5210	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5207
5211	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5208
5212	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5209
5214	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5211
5215	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5212
5216	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5213
5217	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5214
5218	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5215
5219	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5216
5220	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5217
5221	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5218
5222	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5219
5224	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5221
5225	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5222
5226	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5223
5227	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5224
5228	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5225
5229	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5226

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5230	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5227
5231	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5228
5232	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5229
5234	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5231
5235	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5232
5236	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5233
5237	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5234
5238	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5235
5239	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5236
5240	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5237
5241	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5238
5242	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5239
5244	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5241
5245	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5242
5246	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5243
5247	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5244
5248	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5245
5249	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5246
5250	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5247
5251	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5248
5252	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5249
5254	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5251
5255	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5252
5256	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5253
5257	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5254
5258	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5255
5259	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5256
5260	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5257
5261	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5258
5262	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5259
5264	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5261
5265	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5262
5266	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5263
5267	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5264
5268	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5265
5269	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5266
5270	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5267
5271	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5268
5272	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5269
5274	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5271
5275	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5272
5276	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5273

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
5277	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5274
5278	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5275
5279	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5276
5280	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5277
5281	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5278
5282	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5279
5284	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5281
5285	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5282
5286	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5283
5287	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5284
5288	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5285
5289	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5286
5290	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5287
5291	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5288
5292	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5289
5294	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5291
5295	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5292
5296	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5293
5297	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5294
5298	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5295
5299	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5296
5300	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5297
5301	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5298
5302	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5299
5304	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5301
5305	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5302
5306	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5303
5307	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5304
5308	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5305
5309	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5306
5310	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5307
5311	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5308
5312	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5309
5314	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5311
5315	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5312
5316	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5313
5317	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5314
5318	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5315
5319	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5316
5320	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5317
5321	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5318
5322	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5319

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
5324	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5321
5325	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5322
5326	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5323
5327	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5324
5328	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5325
5329	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5326
5330	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5327
5331	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5328
5332	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5329
5334	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5331
5335	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5332
5336	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5333
5337	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5334
5338	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5335
5339	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5336
5340	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5337
5341	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5338
5342	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5339
5344	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5341
5345	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5342
5346	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5343
5347	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5344
5348	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5345
5349	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5346
5350	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5347
5351	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5348
5352	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5349
5354	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5351
5355	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5352
5356	18-SoCal_FoodBeverage (MidModerate_ECOvens)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5353
5497	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5494
5498	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5495
5499	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5496
5500	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5497
5501	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5498
5502	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5499
5504	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5501
5505	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5502
5506	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5503
5507	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5504
5508	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5505
5509	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5506

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5510	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5507
5511	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5508
5512	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5509
5514	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5511
5515	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5512
5516	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5513
5517	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5514
5518	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5515
5519	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5516
5520	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5517
5521	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5518
5522	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5519
5524	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5521
5525	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5522
5526	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5523
5527	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5524
5528	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5525
5529	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5526
5530	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5527
5531	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5528
5532	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5529
5534	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5531
5535	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5532
5536	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5533
5537	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5534
5538	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5535
5539	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5536
5540	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5537
5541	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5538
5542	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5539
5544	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5541
5545	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5542
5546	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5543
5547	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5544
5548	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5545
5549	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5546
5550	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5547
5551	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5548
5552	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5549
5554	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5551
5555	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5552
5556	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5553

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5557	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5554
5558	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5555
5559	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5556
5560	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5557
5561	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5558
5562	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5559
5564	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5561
5565	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5562
5566	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5563
5567	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5564
5568	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5565
5569	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5566
5570	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5567
5571	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5568
5572	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5569
5574	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5571
5575	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5572
5576	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5573
5577	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5574
5578	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5575
5579	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5576
5580	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5577
5581	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5578
5582	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5579
5584	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5581
5585	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5582
5586	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5583
5587	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5584
5588	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5585
5589	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5586
5590	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5587
5591	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5588
5592	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5589
5594	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5591
5595	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5592
5596	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5593
5597	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5594
5598	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5595
5599	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5596
5600	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5597
5601	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5598
5602	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5599

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5604	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5601
5605	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5602
5606	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5603
5607	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5604
5608	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5605
5609	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5606
5610	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5607
5611	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5608
5612	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5609
5614	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5611
5615	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5612
5616	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5613
5617	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5614
5618	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5615
5619	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5616
5620	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5617
5621	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5618
5622	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5619
5624	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5621
5625	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5622
5626	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5623
5627	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5624
5628	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5625
5629	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5626
5630	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5627
5631	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5628
5632	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5629
5634	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5631
5635	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5632
5636	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5633
5637	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5634
5638	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5635
5639	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5636
5640	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5637
5641	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5638
5642	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5639
5644	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5641
5645	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5642
5646	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5643
5647	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5644
5648	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5645
5649	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5646

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5650	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5647
5651	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5648
5652	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5649
5654	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5651
5655	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5652
5656	19-SoCal_FoodBeverage (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5653
5797	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5794
5798	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5795
5799	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5796
5800	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5797
5801	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5798
5802	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5799
5804	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5801
5805	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5802
5806	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5803
5807	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5804
5808	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5805
5809	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5806
5810	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5807
5811	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5808
5812	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5809
5814	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5811
5815	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5812
5816	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5813
5817	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5814
5818	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5815
5819	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5816
5820	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5817
5821	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5818
5822	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5819
5824	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5821
5825	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5822
5826	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5823
5827	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5824
5828	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5825
5829	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5826
5830	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5827
5831	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5828
5832	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5829
5834	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5831
5835	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5832
5836	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5833

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5837	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5834
5838	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5835
5839	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5836
5840	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5837
5841	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5838
5842	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5839
5844	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5841
5845	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5842
5846	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5843
5847	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5844
5848	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5845
5849	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5846
5850	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5847
5851	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5848
5852	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5849
5854	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5851
5855	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5852
5856	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5853
5857	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5854
5858	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5855
5859	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5856
5860	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5857
5861	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5858
5862	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5859
5864	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5861
5865	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5862
5866	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5863
5867	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5864
5868	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5865
5869	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5866
5870	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5867
5871	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5868
5872	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5869
5874	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5871
5875	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5872
5876	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5873
5877	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5874
5878	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5875
5879	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5876
5880	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5877
5881	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5878
5882	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5879

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
5884	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5881
5885	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5882
5886	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5883
5887	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5884
5888	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5885
5889	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5886
5890	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5887
5891	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5888
5892	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5889
5894	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5891
5895	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5892
5896	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5893
5897	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5894
5898	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5895
5899	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5896
5900	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5897
5901	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5898
5902	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5899
5904	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5901
5905	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5902
5906	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5903
5907	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5904
5908	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5905
5909	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5906
5910	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5907
5911	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5908
5912	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5909
5914	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5911
5915	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5912
5916	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5913
5917	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5914
5918	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5915
5919	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5916
5920	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5917
5921	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5918
5922	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5919
5924	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5921
5925	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5922
5926	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5923
5927	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5924
5928	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5925
5929	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5926

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
5930	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5927
5931	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5928
5932	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5929
5934	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5931
5935	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5932
5936	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5933
5937	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5934
5938	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5935
5939	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5936
5940	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5937
5941	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5938
5942	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5939
5944	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5941
5945	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5942
5946	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5943
5947	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5944
5948	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5945
5949	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5946
5950	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5947
5951	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5948
5952	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5949
5954	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5951
5955	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5952
5956	20-SoCal_FoodBeverage (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT5953
6097	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6094
6098	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6095
6099	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6096
6100	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6097
6101	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6098
6102	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6099
6104	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6101
6105	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6102
6106	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6103
6107	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6104
6108	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6105
6109	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6106
6110	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6107
6111	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6108
6112	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6109
6114	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6111
6115	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6112
6116	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6113

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6117	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6114
6118	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6115
6119	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6116
6120	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6117
6121	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6118
6122	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6119
6124	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6121
6125	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6122
6126	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6123
6127	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6124
6128	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6125
6129	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6126
6130	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6127
6131	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6128
6132	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6129
6134	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6131
6135	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6132
6136	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6133
6137	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6134
6138	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6135
6139	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6136
6140	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6137
6141	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6138
6142	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6139
6144	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6141
6145	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6142
6146	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6143
6147	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6144
6148	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6145
6149	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6146
6150	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6147
6151	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6148
6152	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6149
6154	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6151
6155	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6152
6156	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6153
6157	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6154
6158	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6155
6159	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6156
6160	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6157
6161	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6158
6162	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6159

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6164	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6161
6165	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6162
6166	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6163
6167	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6164
6168	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6165
6169	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6166
6170	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6167
6171	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6168
6172	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6169
6174	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6171
6175	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6172
6176	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6173
6177	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6174
6178	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6175
6179	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6176
6180	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6177
6181	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6178
6182	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6179
6184	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6181
6185	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6182
6186	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6183
6187	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6184
6188	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6185
6189	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6186
6190	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6187
6191	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6188
6192	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6189
6194	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6191
6195	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6192
6196	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6193
6197	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6194
6198	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6195
6199	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6196
6200	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6197
6201	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6198
6202	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6199
6204	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6201
6205	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6202
6206	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6203
6207	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6204
6208	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6205
6209	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6206

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6210	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6207
6211	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6208
6212	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6209
6214	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6211
6215	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6212
6216	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6213
6217	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6214
6218	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6215
6219	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6216
6220	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6217
6221	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6218
6222	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6219
6224	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6221
6225	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6222
6226	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6223
6227	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6224
6228	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6225
6229	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6226
6230	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6227
6231	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6228
6232	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6229
6234	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6231
6235	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6232
6236	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6233
6237	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6234
6238	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6235
6239	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6236
6240	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6237
6241	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6238
6242	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6239
6244	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6241
6245	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6242
6246	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6243
6247	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	98.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6244
6248	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6245
6249	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6246
6250	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6247
6251	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6248
6252	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6249
6254	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6251
6255	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6252
6256	21-SoCal_FoodBeverage (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6253

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6397	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6394
6398	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6395
6399	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6396
6400	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6397
6401	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6398
6402	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6399
6404	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6401
6405	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6402
6406	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6403
6407	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6404
6408	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6405
6409	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6406
6410	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6407
6411	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6408
6412	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6409
6414	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6411
6415	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6412
6416	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6413
6417	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6414
6418	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6415
6419	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6416
6420	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6417
6421	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6418
6422	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6419
6424	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6421
6425	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6422
6426	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6423
6427	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6424
6428	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6425
6429	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6426
6430	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6427
6431	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6428
6432	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6429
6434	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6431
6435	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6432
6436	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6433
6437	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6434
6438	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6435
6439	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6436
6440	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6437
6441	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6438
6442	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6439

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6444	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6441
6445	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6442
6446	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6443
6447	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6444
6448	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6445
6449	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6446
6450	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6447
6451	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6448
6452	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6449
6454	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6451
6455	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6452
6456	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6453
6457	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6454
6458	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6455
6459	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6456
6460	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6457
6461	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6458
6462	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6459
6464	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6461
6465	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6462
6466	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6463
6467	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6464
6468	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6465
6469	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6466
6470	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6467
6471	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6468
6472	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6469
6474	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6471
6475	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6472
6476	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6473
6477	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6474
6478	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6475
6479	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6476
6480	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6477
6481	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6478
6482	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6479
6484	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6481
6485	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6482
6486	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6483
6487	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6484
6488	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6485
6489	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6486

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
6490	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6487
6491	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6488
6492	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6489
6494	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6491
6495	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6492
6496	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6493
6497	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6494
6498	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6495
6499	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6496
6500	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6497
6501	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6498
6502	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6499
6504	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6501
6505	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6502
6506	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6503
6507	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6504
6508	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6505
6509	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6506
6510	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6507
6511	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6508
6512	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6509
6514	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6511
6515	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6512
6516	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6513
6517	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6514
6518	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6515
6519	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6516
6520	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6517
6521	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6518
6522	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6519
6524	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6521
6525	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6522
6526	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6523
6527	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6524
6528	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6525
6529	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6526
6530	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6527
6531	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6528
6532	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6529
6534	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6531
6535	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6532
6536	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6533

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6537	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6534
6538	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6535
6539	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6536
6540	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6537
6541	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6538
6542	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6539
6544	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6541
6545	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6542
6546	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6543
6547	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6544
6548	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6545
6549	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6546
6550	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6547
6551	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6548
6552	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6549
6554	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6551
6555	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6552
6556	22-SoCal_FoodBeverage (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6553
6697	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6694
6698	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6695
6699	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6696
6700	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6697
6701	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6698
6702	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6699
6704	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6701
6705	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6702
6706	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6703
6707	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6704
6708	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6705
6709	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6706
6710	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6707
6711	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6708
6712	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6709
6714	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6711
6715	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6712
6716	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6713
6717	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6714
6718	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6715
6719	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6716
6720	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6717
6721	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6718
6722	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6719

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6724	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6721
6725	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6722
6726	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6723
6727	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6724
6728	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6725
6729	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6726
6730	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6727
6731	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6728
6732	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6729
6734	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6731
6735	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6732
6736	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6733
6737	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6734
6738	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6735
6739	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6736
6740	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6737
6741	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6738
6742	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6739
6744	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6741
6745	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6742
6746	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6743
6747	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6744
6748	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6745
6749	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6746
6750	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6747
6751	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6748
6752	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6749
6754	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6751
6755	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6752
6756	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6753
6757	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6754
6758	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6755
6759	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6756
6760	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6757
6761	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6758
6762	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6759
6764	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6761
6765	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6762
6766	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6763
6767	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6764
6768	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6765
6769	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6766

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
6770	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6767
6771	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6768
6772	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6769
6774	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6771
6775	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6772
6776	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6773
6777	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6774
6778	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6775
6779	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6776
6780	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6777
6781	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6778
6782	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6779
6784	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6781
6785	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6782
6786	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6783
6787	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6784
6788	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6785
6789	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6786
6790	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6787
6791	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6788
6792	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6789
6794	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6791
6795	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6792
6796	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6793
6797	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6794
6798	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6795
6799	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6796
6800	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6797
6801	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6798
6802	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6799
6804	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6801
6805	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6802
6806	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6803
6807	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6804
6808	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6805
6809	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6806
6810	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6807
6811	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6808
6812	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6809
6814	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6811
6815	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6812
6816	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6813

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
6817	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6814
6818	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6815
6819	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6816
6820	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6817
6821	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6818
6822	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6819
6824	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6821
6825	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6822
6826	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6823
6827	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6824
6828	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6825
6829	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6826
6830	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6827
6831	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6828
6832	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6829
6834	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6831
6835	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6832
6836	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6833
6837	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6834
6838	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6835
6839	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6836
6840	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6837
6841	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6838
6842	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6839
6844	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6841
6845	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6842
6846	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6843
6847	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	1.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6844
6848	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6845
6849	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6846
6850	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6847
6851	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6848
6852	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6849
6854	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6851
6855	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6852
6856	23-SoCal_FoodBeverage (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6853
6997	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6994
6998	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2790675.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6995
6999	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6996
7000	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6997
7001	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20998808.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6998
7002	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT6999

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
7004	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7001
7005	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7002
7006	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7003
7007	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7004
7008	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3290883.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7005
7009	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7006
7010	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7007
7011	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21193994.63	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7008
7012	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7009
7014	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7011
7015	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7012
7016	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7013
7017	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7014
7018	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3760664.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7015
7019	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7016
7020	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7017
7021	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21323086.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7018
7022	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7019
7024	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7021
7025	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7022
7026	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7023
7027	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7024
7028	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4204771.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7025
7029	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7026
7030	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7027
7031	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21425777.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7028
7032	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7029
7034	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7031
7035	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7032
7036	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7033
7037	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7034
7038	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4633047.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7035
7039	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7036
7040	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7037
7041	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21549706.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7038
7042	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7039
7044	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7041
7045	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7042
7046	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7043
7047	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7044
7048	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5042861.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7045
7049	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7046

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7050	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7047
7051	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21673963.65	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7048
7052	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7049
7054	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7051
7055	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7052
7056	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7053
7057	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7054
7058	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5428608.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7055
7059	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7056
7060	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7057
7061	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21772096.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7058
7062	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7059
7064	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7061
7065	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7062
7066	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7063
7067	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7064
7068	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5809861.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7065
7069	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7066
7070	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7067
7071	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21919128.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7068
7072	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7069
7074	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7071
7075	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7072
7076	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7073
7077	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7074
7078	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6185478.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7075
7079	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7076
7080	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7077
7081	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22099868.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7078
7082	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7079
7084	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7081
7085	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7082
7086	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7083
7087	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7084
7088	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6543637.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7085
7089	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7086
7090	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7087
7091	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22266689.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7088
7092	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7089
7094	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7091
7095	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7092
7096	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7093

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7097	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7094
7098	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	6983041.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7095
7099	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7096
7100	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7097
7101	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22440474.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7098
7102	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7099
7104	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7101
7105	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7102
7106	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7103
7107	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7104
7108	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7406713.97	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7105
7109	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7106
7110	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7107
7111	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22613434.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7108
7112	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7109
7114	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7111
7115	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7112
7116	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7113
7117	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7114
7118	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	7810297.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7115
7119	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7116
7120	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7117
7121	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22770896.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7118
7122	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7119
7124	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7121
7125	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7122
7126	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7123
7127	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7124
7128	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8198878.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7125
7129	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7126
7130	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7127
7131	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22927071.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7128
7132	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7129
7134	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7131
7135	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7132
7136	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7133
7137	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7134
7138	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8564868.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7135
7139	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7136
7140	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7137
7141	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23059819.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7138
7142	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7139

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
7144	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7141
7145	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7142
7146	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7143
7147	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7144
7148	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	8910841.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7145
7149	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7146
7150	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7147
7151	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23176509.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7148
7152	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7149
7154	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7151
7155	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7152
7156	24-SoCal_FoodBeverage (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7153
7297	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7294
7298	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	893874.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7295
7299	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7296
7300	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7297
7301	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7298
7302	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7299
7304	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7301
7305	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7302
7306	25-SoCal_Metals (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7303
7307	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7304
7308	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1009132.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7305
7309	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7306
7310	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7307
7311	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7308
7312	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7309
7314	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7311
7315	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7312
7316	25-SoCal_Metals (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7313
7317	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7314
7318	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1116892.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7315
7319	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7316
7320	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7317
7321	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7318
7322	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7319
7324	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7321
7325	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7322
7326	25-SoCal_Metals (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7323
7327	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7324
7328	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1217466.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7325
7329	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7326

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7330	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7327
7331	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7328
7332	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7329
7334	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7331
7335	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7332
7336	25-SoCal_Metals (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7333
7337	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7334
7338	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1311201.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7335
7339	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7336
7340	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7337
7341	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7338
7342	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7339
7344	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7341
7345	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7342
7346	25-SoCal_Metals (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7343
7347	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7344
7348	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1398477.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7345
7349	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7346
7350	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7347
7351	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7348
7352	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7349
7354	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7351
7355	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7352
7356	25-SoCal_Metals (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7353
7357	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7354
7358	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1479692.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7355
7359	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7356
7360	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7357
7361	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7358
7362	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7359
7364	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7361
7365	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7362
7366	25-SoCal_Metals (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7363
7367	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7364
7368	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1555254.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7365
7369	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7366
7370	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7367
7371	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7368
7372	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7369
7374	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7371
7375	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7372
7376	25-SoCal_Metals (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7373

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
7377	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7374
7378	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1625567.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7375
7379	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7376
7380	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7377
7381	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7378
7382	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7379
7384	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7381
7385	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7382
7386	25-SoCal_Metals (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7383
7387	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7384
7388	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1691025.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7385
7389	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7386
7390	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7387
7391	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7388
7392	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7389
7394	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7391
7395	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7392
7396	25-SoCal_Metals (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7393
7397	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7394
7398	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1753778.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7395
7399	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7396
7400	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7397
7401	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7398
7402	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7399
7404	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7401
7405	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7402
7406	25-SoCal_Metals (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7403
7407	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7404
7408	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1812300.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7405
7409	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7406
7410	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7407
7411	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7408
7412	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7409
7414	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7411
7415	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7412
7416	25-SoCal_Metals (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7413
7417	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7414
7418	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1866921.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7415
7419	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7416
7420	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7417
7421	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7418
7422	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7419

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7424	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7421
7425	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7422
7426	25-SoCal_Metals (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7423
7427	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7424
7428	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1917942.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7425
7429	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7426
7430	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7427
7431	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7428
7432	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7429
7434	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7431
7435	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7432
7436	25-SoCal_Metals (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7433
7437	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7434
7438	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1965639.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7435
7439	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7436
7440	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7437
7441	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7438
7442	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7439
7444	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7441
7445	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7442
7446	25-SoCal_Metals (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7443
7447	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7444
7448	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2010265.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7445
7449	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7446
7450	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7447
7451	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7448
7452	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7449
7454	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7451
7455	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7452
7456	25-SoCal_Metals (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7453
7597	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7594
7598	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	893874.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7595
7599	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7596
7600	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7597
7601	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7598
7602	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7599
7604	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7601
7605	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7602
7606	26-SoCal_Metals (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7603
7607	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7604
7608	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1009132.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7605
7609	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7606

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	**Equipment ID**	*Fuel Type*	*Parameter*	Value	Reference
7610	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7607
7611	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7608
7612	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7609
7614	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7611
7615	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7612
7616	26-SoCal_Metals (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7613
7617	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7614
7618	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1116892.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7615
7619	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7616
7620	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7617
7621	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7618
7622	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7619
7624	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7621
7625	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7622
7626	26-SoCal_Metals (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7623
7627	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7624
7628	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1217466.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7625
7629	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7626
7630	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7627
7631	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7628
7632	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7629
7634	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7631
7635	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7632
7636	26-SoCal_Metals (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7633
7637	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7634
7638	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1311201.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7635
7639	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7636
7640	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7637
7641	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7638
7642	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7639
7644	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7641
7645	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7642
7646	26-SoCal_Metals (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7643
7647	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7644
7648	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1398477.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7645
7649	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7646
7650	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7647
7651	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7648
7652	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7649
7654	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7651
7655	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7652
7656	26-SoCal_Metals (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7653

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
7657	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7654
7658	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1479692.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7655
7659	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7656
7660	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7657
7661	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7658
7662	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7659
7664	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7661
7665	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7662
7666	26-SoCal_Metals (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7663
7667	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7664
7668	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1555254.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7665
7669	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7666
7670	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7667
7671	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7668
7672	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7669
7674	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7671
7675	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7672
7676	26-SoCal_Metals (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7673
7677	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7674
7678	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1625567.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7675
7679	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7676
7680	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7677
7681	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7678
7682	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7679
7684	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7681
7685	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7682
7686	26-SoCal_Metals (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7683
7687	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7684
7688	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1691025.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7685
7689	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7686
7690	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7687
7691	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7688
7692	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7689
7694	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7691
7695	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7692
7696	26-SoCal_Metals (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7693
7697	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7694
7698	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1753778.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7695
7699	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7696
7700	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7697
7701	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7698
7702	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7699

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
7704	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7701
7705	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7702
7706	26-SoCal_Metals (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7703
7707	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7704
7708	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1812300.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7705
7709	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7706
7710	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7707
7711	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7708
7712	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7709
7714	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7711
7715	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7712
7716	26-SoCal_Metals (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7713
7717	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7714
7718	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1866921.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7715
7719	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7716
7720	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7717
7721	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7718
7722	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7719
7724	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7721
7725	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7722
7726	26-SoCal_Metals (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7723
7727	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7724
7728	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1917942.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7725
7729	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7726
7730	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7727
7731	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7728
7732	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7729
7734	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7731
7735	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7732
7736	26-SoCal_Metals (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7733
7737	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7734
7738	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1965639.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7735
7739	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7736
7740	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7737
7741	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7738
7742	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7739
7744	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7741
7745	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7742
7746	26-SoCal_Metals (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7743
7747	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7744
7748	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2010265.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7745
7749	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7746

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
7750	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7747
7751	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7748
7752	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7749
7754	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7751
7755	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7752
7756	26-SoCal_Metals (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7753
7897	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7894
7898	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	893874.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7895
7899	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7896
7900	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7897
7901	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7898
7902	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7899
7904	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7901
7905	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7902
7906	27-SoCal_Metals (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7903
7907	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7904
7908	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1009132.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7905
7909	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7906
7910	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7907
7911	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7908
7912	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7909
7914	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7911
7915	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7912
7916	27-SoCal_Metals (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7913
7917	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7914
7918	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1116892.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7915
7919	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7916
7920	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7917
7921	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7918
7922	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7919
7924	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7921
7925	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7922
7926	27-SoCal_Metals (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7923
7927	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7924
7928	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1217466.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7925
7929	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7926
7930	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7927
7931	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7928
7932	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7929
7934	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7931
7935	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7932
7936	27-SoCal_Metals (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7933

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
7937	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7934
7938	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1311201.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7935
7939	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7936
7940	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7937
7941	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7938
7942	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7939
7944	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7941
7945	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7942
7946	27-SoCal_Metals (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7943
7947	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7944
7948	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1398477.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7945
7949	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7946
7950	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7947
7951	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7948
7952	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7949
7954	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7951
7955	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7952
7956	27-SoCal_Metals (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7953
7957	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7954
7958	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1479692.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7955
7959	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7956
7960	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7957
7961	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7958
7962	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7959
7964	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7961
7965	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7962
7966	27-SoCal_Metals (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7963
7967	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7964
7968	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1555254.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7965
7969	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7966
7970	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7967
7971	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7968
7972	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7969
7974	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7971
7975	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7972
7976	27-SoCal_Metals (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7973
7977	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7974
7978	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1625567.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7975
7979	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7976
7980	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7977
7981	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7978
7982	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7979

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
7984	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7981
7985	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7982
7986	27-SoCal_Metals (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7983
7987	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7984
7988	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1691025.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7985
7989	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7986
7990	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7987
7991	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7988
7992	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7989
7994	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7991
7995	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7992
7996	27-SoCal_Metals (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7993
7997	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7994
7998	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1753778.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7995
7999	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7996
8000	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7997
8001	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7998
8002	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT7999
8004	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8001
8005	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8002
8006	27-SoCal_Metals (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8003
8007	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8004
8008	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1812300.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8005
8009	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8006
8010	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8007
8011	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8008
8012	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8009
8014	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8011
8015	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8012
8016	27-SoCal_Metals (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8013
8017	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8014
8018	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1866921.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8015
8019	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8016
8020	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8017
8021	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8018
8022	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8019
8024	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8021
8025	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8022
8026	27-SoCal_Metals (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8023
8027	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8024
8028	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1917942.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8025
8029	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8026

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8030	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8027
8031	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8028
8032	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8029
8034	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8031
8035	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8032
8036	27-SoCal_Metals (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8033
8037	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8034
8038	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1965639.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8035
8039	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8036
8040	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8037
8041	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8038
8042	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8039
8044	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8041
8045	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8042
8046	27-SoCal_Metals (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8043
8047	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8044
8048	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2010265.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8045
8049	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8046
8050	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8047
8051	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8048
8052	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8049
8054	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8051
8055	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8052
8056	27-SoCal_Metals (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8053
8197	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8194
8198	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	893874.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8195
8199	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8196
8200	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8197
8201	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8198
8202	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8199
8204	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8201
8205	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8202
8206	28-SoCal_Metals (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8203
8207	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8204
8208	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1009132.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8205
8209	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8206
8210	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8207
8211	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8208
8212	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8209
8214	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8211
8215	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8212
8216	28-SoCal_Metals (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8213

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8217	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8214
8218	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1116892.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8215
8219	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8216
8220	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8217
8221	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8218
8222	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8219
8224	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8221
8225	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8222
8226	28-SoCal_Metals (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8223
8227	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8224
8228	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1217466.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8225
8229	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8226
8230	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8227
8231	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8228
8232	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8229
8234	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8231
8235	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8232
8236	28-SoCal_Metals (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8233
8237	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8234
8238	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1311201.94	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8235
8239	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8236
8240	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8237
8241	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8238
8242	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8239
8244	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8241
8245	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8242
8246	28-SoCal_Metals (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8243
8247	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8244
8248	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1398477.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8245
8249	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8246
8250	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8247
8251	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8248
8252	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8249
8254	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8251
8255	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8252
8256	28-SoCal_Metals (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8253
8257	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8254
8258	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1479692.48	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8255
8259	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8256
8260	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8257
8261	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8258
8262	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8259

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8264	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8261
8265	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8262
8266	28-SoCal_Metals (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8263
8267	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8264
8268	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1555254.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8265
8269	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8266
8270	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8267
8271	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8268
8272	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8269
8274	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8271
8275	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8272
8276	28-SoCal_Metals (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8273
8277	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8274
8278	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1625567.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8275
8279	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8276
8280	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8277
8281	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8278
8282	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8279
8284	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8281
8285	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8282
8286	28-SoCal_Metals (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8283
8287	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8284
8288	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1691025.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8285
8289	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8286
8290	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8287
8291	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8288
8292	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8289
8294	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8291
8295	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8292
8296	28-SoCal_Metals (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8293
8297	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8294
8298	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1753778.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8295
8299	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8296
8300	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8297
8301	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8298
8302	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8299
8304	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8301
8305	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8302
8306	28-SoCal_Metals (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8303
8307	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8304
8308	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1812300.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8305
8309	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8306

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
8310	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8307
8311	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8308
8312	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8309
8314	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8311
8315	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8312
8316	28-SoCal_Metals (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8313
8317	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8314
8318	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1866921.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8315
8319	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8316
8320	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8317
8321	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8318
8322	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8319
8324	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8321
8325	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8322
8326	28-SoCal_Metals (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8323
8327	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8324
8328	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1917942.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8325
8329	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8326
8330	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8327
8331	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8328
8332	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8329
8334	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8331
8335	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8332
8336	28-SoCal_Metals (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8333
8337	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8334
8338	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1965639.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8335
8339	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8336
8340	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8337
8341	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8338
8342	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8339
8344	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8341
8345	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8342
8346	28-SoCal_Metals (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8343
8347	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8344
8348	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2010265.13	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8345
8349	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8346
8350	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8347
8351	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8348
8352	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8349
8354	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8351
8355	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8352
8356	28-SoCal_Metals (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8353

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8497	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8494
8498	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8495
8499	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8496
8500	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8497
8501	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8498
8502	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8499
8504	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8501
8505	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8502
8506	29-SoCal_Metals (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8503
8507	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8504
8508	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8505
8509	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8506
8510	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8507
8511	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8508
8512	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8509
8514	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8511
8515	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8512
8516	29-SoCal_Metals (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8513
8517	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8514
8518	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8515
8519	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8516
8520	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8517
8521	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8518
8522	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8519
8524	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8521
8525	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8522
8526	29-SoCal_Metals (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8523
8527	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8524
8528	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8525
8529	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8526
8530	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8527
8531	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8528
8532	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8529
8534	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8531
8535	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8532
8536	29-SoCal_Metals (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8533
8537	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8534
8538	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8535
8539	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8536
8540	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8537
8541	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8538
8542	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8539

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8544	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8541
8545	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8542
8546	29-SoCal_Metals (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8543
8547	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8544
8548	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8545
8549	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8546
8550	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8547
8551	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8548
8552	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8549
8554	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8551
8555	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8552
8556	29-SoCal_Metals (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8553
8557	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8554
8558	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8555
8559	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8556
8560	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8557
8561	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8558
8562	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8559
8564	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8561
8565	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8562
8566	29-SoCal_Metals (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8563
8567	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8564
8568	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8565
8569	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8566
8570	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8567
8571	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8568
8572	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8569
8574	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8571
8575	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8572
8576	29-SoCal_Metals (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8573
8577	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8574
8578	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8575
8579	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8576
8580	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8577
8581	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8578
8582	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8579
8584	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8581
8585	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8582
8586	29-SoCal_Metals (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8583
8587	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8584
8588	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8585
8589	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8586

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8590	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8587
8591	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8588
8592	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8589
8594	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8591
8595	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8592
8596	29-SoCal_Metals (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8593
8597	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8594
8598	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8595
8599	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8596
8600	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8597
8601	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8598
8602	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8599
8604	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8601
8605	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8602
8606	29-SoCal_Metals (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8603
8607	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8604
8608	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8605
8609	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8606
8610	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8607
8611	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8608
8612	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8609
8614	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8611
8615	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8612
8616	29-SoCal_Metals (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8613
8617	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8614
8618	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8615
8619	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8616
8620	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8617
8621	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8618
8622	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8619
8624	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8621
8625	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8622
8626	29-SoCal_Metals (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8623
8627	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8624
8628	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8625
8629	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8626
8630	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8627
8631	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8628
8632	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8629
8634	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8631
8635	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8632
8636	29-SoCal_Metals (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8633

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
8637	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8634
8638	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8635
8639	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8636
8640	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8637
8641	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8638
8642	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8639
8644	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8641
8645	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8642
8646	29-SoCal_Metals (MidModerate_ECGeneral)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8643
8647	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8644
8648	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8645
8649	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8646
8650	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8647
8651	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8648
8652	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8649
8654	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8651
8655	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8652
8656	29-SoCal_Metals (MidModerate_ECGeneral)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8653
8797	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8794
8798	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8795
8799	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8796
8800	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8797
8801	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8798
8802	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8799
8804	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8801
8805	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8802
8806	30-SoCal_Metals (MidModerate_ECOvens)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8803
8807	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8804
8808	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8805
8809	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8806
8810	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8807
8811	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	BSL NG Consumption (MMBtu/yr)	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8808
8812	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8809
8814	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8811
8815	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8812
8816	30-SoCal_Metals (MidModerate_ECOvens)	2031_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8813
8817	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8814
8818	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	PRJ H2 Demand (MMBtu/yr)	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8815
8819	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8816
8820	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8817
8821	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	BSL NG Consumption (MMBtu/yr)	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8818
8822	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8819

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8824	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8821
8825	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8822
8826	30-SoCal_Metals (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8823
8827	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8824
8828	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8825
8829	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8826
8830	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8827
8831	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8828
8832	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8829
8834	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8831
8835	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8832
8836	30-SoCal_Metals (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8833
8837	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8834
8838	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8835
8839	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8836
8840	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8837
8841	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8838
8842	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8839
8844	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8841
8845	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8842
8846	30-SoCal_Metals (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8843
8847	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8844
8848	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8845
8849	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8846
8850	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8847
8851	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8848
8852	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8849
8854	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8851
8855	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8852
8856	30-SoCal_Metals (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8853
8857	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8854
8858	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8855
8859	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8856
8860	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8857
8861	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8858
8862	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8859
8864	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8861
8865	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8862
8866	30-SoCal_Metals (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8863
8867	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8864
8868	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8865
8869	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8866

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
8870	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8867
8871	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8868
8872	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8869
8874	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8871
8875	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8872
8876	30-SoCal_Metals (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8873
8877	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8874
8878	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8875
8879	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8876
8880	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8877
8881	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8878
8882	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8879
8884	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8881
8885	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8882
8886	30-SoCal_Metals (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8883
8887	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8884
8888	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8885
8889	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8886
8890	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8887
8891	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8888
8892	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8889
8894	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8891
8895	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8892
8896	30-SoCal_Metals (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8893
8897	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8894
8898	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8895
8899	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8896
8900	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8897
8901	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8898
8902	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8899
8904	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8901
8905	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8902
8906	30-SoCal_Metals (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8903
8907	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8904
8908	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8905
8909	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8906
8910	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8907
8911	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8908
8912	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8909
8914	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8911
8915	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8912
8916	30-SoCal_Metals (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8913

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
8917	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8914
8918	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8915
8919	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8916
8920	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8917
8921	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8918
8922	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8919
8924	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8921
8925	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8922
8926	30-SoCal_Metals (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8923
8927	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8924
8928	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8925
8929	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8926
8930	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8927
8931	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8928
8932	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8929
8934	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8931
8935	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8932
8936	30-SoCal_Metals (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8933
8937	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8934
8938	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8935
8939	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8936
8940	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8937
8941	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8938
8942	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8939
8944	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8941
8945	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8942
8946	30-SoCal_Metals (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8943
8947	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8944
8948	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8945
8949	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8946
8950	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8947
8951	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8948
8952	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8949
8954	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8951
8955	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8952
8956	30-SoCal_Metals (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT8953
9097	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9094
9098	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9095
9099	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9096
9100	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9097
9101	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9098
9102	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9099

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9104	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9101
9105	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9102
9106	31-SoCal_Metals (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9103
9107	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9104
9108	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9105
9109	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9106
9110	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9107
9111	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9108
9112	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9109
9114	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9111
9115	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9112
9116	31-SoCal_Metals (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9113
9117	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9114
9118	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9115
9119	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9116
9120	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9117
9121	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9118
9122	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9119
9124	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9121
9125	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9122
9126	31-SoCal_Metals (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9123
9127	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9124
9128	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9125
9129	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9126
9130	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9127
9131	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9128
9132	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9129
9134	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9131
9135	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9132
9136	31-SoCal_Metals (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9133
9137	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9134
9138	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9135
9139	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9136
9140	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9137
9141	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9138
9142	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9139
9144	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9141
9145	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9142
9146	31-SoCal_Metals (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9143
9147	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9144
9148	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9145
9149	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9146

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9150	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9147
9151	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9148
9152	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9149
9154	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9151
9155	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9152
9156	31-SoCal_Metals (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9153
9157	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9154
9158	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9155
9159	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9156
9160	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9157
9161	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9158
9162	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9159
9164	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9161
9165	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9162
9166	31-SoCal_Metals (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9163
9167	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9164
9168	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9165
9169	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9166
9170	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9167
9171	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9168
9172	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9169
9174	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9171
9175	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9172
9176	31-SoCal_Metals (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9173
9177	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9174
9178	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9175
9179	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9176
9180	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9177
9181	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9178
9182	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9179
9184	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9181
9185	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9182
9186	31-SoCal_Metals (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9183
9187	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9184
9188	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9185
9189	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9186
9190	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9187
9191	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9188
9192	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9189
9194	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9191
9195	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9192
9196	31-SoCal_Metals (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9193

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
9197	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9194
9198	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9195
9199	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9196
9200	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9197
9201	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9198
9202	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9199
9204	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9201
9205	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9202
9206	31-SoCal_Metals (MidModerate_ICEngines)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9203
9207	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9204
9208	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9205
9209	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9206
9210	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9207
9211	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	BSL NG Consumption (MMBtu/yr)	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9208
9212	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9209
9214	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9211
9215	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9212
9216	31-SoCal_Metals (MidModerate_ICEngines)	2041_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9213
9217	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9214
9218	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	PRJ H2 Demand (MMBtu/yr)	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9215
9219	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9216
9220	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9217
9221	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	BSL NG Consumption (MMBtu/yr)	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9218
9222	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9219
9224	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9221
9225	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9222
9226	31-SoCal_Metals (MidModerate_ICEngines)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9223
9227	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9224
9228	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9225
9229	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9226
9230	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9227
9231	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9228
9232	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9229
9234	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9231
9235	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9232
9236	31-SoCal_Metals (MidModerate_ICEngines)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9233
9237	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9234
9238	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9235
9239	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9236
9240	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9237
9241	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9238
9242	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9239

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	Value	Reference
9244	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9241
9245	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9242
9246	31-SoCal_Metals (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9243
9247	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9244
9248	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9245
9249	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9246
9250	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9247
9251	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9248
9252	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9249
9254	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9251
9255	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9252
9256	31-SoCal_Metals (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9253
9397	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9394
9398	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9395
9399	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9396
9400	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9397
9401	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9398
9402	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9399
9404	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9401
9405	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9402
9406	32-SoCal_Metals (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9403
9407	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9404
9408	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9405
9409	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9406
9410	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9407
9411	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9408
9412	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9409
9414	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9411
9415	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9412
9416	32-SoCal_Metals (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9413
9417	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9414
9418	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9415
9419	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9416
9420	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9417
9421	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9418
9422	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9419
9424	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9421
9425	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9422
9426	32-SoCal_Metals (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9423
9427	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9424
9428	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9425
9429	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9426

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9430	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9427
9431	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9428
9432	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9429
9434	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9431
9435	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9432
9436	32-SoCal_Metals (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9433
9437	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9434
9438	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9435
9439	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9436
9440	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9437
9441	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9438
9442	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9439
9444	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9441
9445	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9442
9446	32-SoCal_Metals (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9443
9447	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9444
9448	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9445
9449	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9446
9450	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9447
9451	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9448
9452	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9449
9454	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9451
9455	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9452
9456	32-SoCal_Metals (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9453
9457	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9454
9458	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9455
9459	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9456
9460	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9457
9461	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9458
9462	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9459
9464	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9461
9465	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9462
9466	32-SoCal_Metals (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9463
9467	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9464
9468	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9465
9469	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9466
9470	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9467
9471	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9468
9472	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9469
9474	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9471
9475	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9472
9476	32-SoCal_Metals (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9473

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9477	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9474
9478	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9475
9479	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9476
9480	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9477
9481	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9478
9482	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9479
9484	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9481
9485	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9482
9486	32-SoCal_Metals (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9483
9487	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9484
9488	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9485
9489	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9486
9490	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9487
9491	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9488
9492	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9489
9494	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9491
9495	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9492
9496	32-SoCal_Metals (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9493
9497	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9494
9498	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9495
9499	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9496
9500	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9497
9501	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9498
9502	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9499
9504	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9501
9505	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9502
9506	32-SoCal_Metals (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9503
9507	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9504
9508	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9505
9509	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9506
9510	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9507
9511	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9508
9512	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9509
9514	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9511
9515	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9512
9516	32-SoCal_Metals (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9513
9517	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9514
9518	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9515
9519	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9516
9520	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9517
9521	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9518
9522	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9519

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9524	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9521
9525	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9522
9526	32-SoCal_Metals (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9523
9527	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9524
9528	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9525
9529	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9526
9530	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9527
9531	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9528
9532	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9529
9534	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9531
9535	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9532
9536	32-SoCal_Metals (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9533
9537	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9534
9538	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9535
9539	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9536
9540	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9537
9541	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9538
9542	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9539
9544	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9541
9545	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9542
9546	32-SoCal_Metals (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9543
9547	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9544
9548	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9545
9549	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9546
9550	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9547
9551	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9548
9552	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9549
9554	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9551
9555	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9552
9556	32-SoCal_Metals (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9553
9697	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9694
9698	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9695
9699	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9696
9700	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9697
9701	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9698
9702	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9699
9704	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9701
9705	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9702
9706	33-SoCal_Metals (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9703
9707	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9704
9708	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9705
9709	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9706

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9710	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9707
9711	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9708
9712	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9709
9714	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9711
9715	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9712
9716	33-SoCal_Metals (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9713
9717	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9714
9718	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9715
9719	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9716
9720	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9717
9721	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9718
9722	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9719
9724	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9721
9725	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9722
9726	33-SoCal_Metals (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9723
9727	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9724
9728	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9725
9729	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9726
9730	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9727
9731	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9728
9732	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9729
9734	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9731
9735	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9732
9736	33-SoCal_Metals (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9733
9737	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9734
9738	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9735
9739	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9736
9740	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9737
9741	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9738
9742	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9739
9744	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9741
9745	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9742
9746	33-SoCal_Metals (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9743
9747	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9744
9748	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9745
9749	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9746
9750	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9747
9751	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9748
9752	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9749
9754	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9751
9755	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9752
9756	33-SoCal_Metals (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9753

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9757	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9754
9758	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9755
9759	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9756
9760	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9757
9761	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9758
9762	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9759
9764	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9761
9765	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9762
9766	33-SoCal_Metals (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9763
9767	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9764
9768	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9765
9769	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9766
9770	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9767
9771	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9768
9772	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9769
9774	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9771
9775	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9772
9776	33-SoCal_Metals (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9773
9777	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9774
9778	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9775
9779	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9776
9780	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9777
9781	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9778
9782	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9779
9784	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9781
9785	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9782
9786	33-SoCal_Metals (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9783
9787	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9784
9788	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9785
9789	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9786
9790	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9787
9791	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9788
9792	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9789
9794	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9791
9795	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9792
9796	33-SoCal_Metals (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9793
9797	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9794
9798	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9795
9799	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9796
9800	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9797
9801	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9798
9802	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9799

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
9804	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9801
9805	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9802
9806	33-SoCal_Metals (HighAmbitious_ECGeneral)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9803
9807	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9804
9808	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9805
9809	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9806
9810	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9807
9811	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	BSL NG Consumption (MMBtu/yr)	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9808
9812	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9809
9814	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9811
9815	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9812
9816	33-SoCal_Metals (HighAmbitious_ECGeneral)	2041_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9813
9817	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9814
9818	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	PRJ H2 Demand (MMBtu/yr)	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9815
9819	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9816
9820	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9817
9821	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	BSL NG Consumption (MMBtu/yr)	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9818
9822	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9819
9824	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9821
9825	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9822
9826	33-SoCal_Metals (HighAmbitious_ECGeneral)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9823
9827	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9824
9828	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9825
9829	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9826
9830	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9827
9831	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9828
9832	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9829
9834	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9831
9835	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9832
9836	33-SoCal_Metals (HighAmbitious_ECGeneral)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9833
9837	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9834
9838	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9835
9839	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9836
9840	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9837
9841	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9838
9842	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9839
9844	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9841
9845	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9842
9846	33-SoCal_Metals (HighAmbitious_ECGeneral)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9843
9847	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9844
9848	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9845
9849	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9846

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
9850	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9847
9851	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9848
9852	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9849
9854	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9851
9855	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9852
9856	33-SoCal_Metals (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9853
9997	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9994
9998	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9995
9999	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9996
10000	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9997
10001	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9998
10002	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9999
10004	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10001
10005	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10002
10006	34-SoCal_Metals (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10003
10007	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10004
10008	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10005
10009	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10006
10010	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10007
10011	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10008
10012	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10009
10014	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10011
10015	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10012
10016	34-SoCal_Metals (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10013
10017	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10014
10018	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10015
10019	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10016
10020	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10017
10021	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10018
10022	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10019
10024	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10021
10025	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10022
10026	34-SoCal_Metals (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10023
10027	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10024
10028	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10025
10029	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10026
10030	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10027
10031	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10028
10032	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10029
10034	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10031
10035	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10032
10036	34-SoCal_Metals (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10033

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
10037	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10034
10038	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10035
10039	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10036
10040	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10037
10041	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10038
10042	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10039
10044	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10041
10045	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10042
10046	34-SoCal_Metals (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10043
10047	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10044
10048	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10045
10049	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10046
10050	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10047
10051	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10048
10052	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10049
10054	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10051
10055	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10052
10056	34-SoCal_Metals (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10053
10057	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10054
10058	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10055
10059	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10056
10060	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10057
10061	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10058
10062	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10059
10064	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10061
10065	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10062
10066	34-SoCal_Metals (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10063
10067	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10064
10068	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10065
10069	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10066
10070	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10067
10071	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10068
10072	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10069
10074	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10071
10075	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10072
10076	34-SoCal_Metals (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10073
10077	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10074
10078	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10075
10079	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10076
10080	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10077
10081	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10078
10082	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10079

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
10084	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10081
10085	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10082
10086	34-SoCal_Metals (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10083
10087	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10084
10088	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10085
10089	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10086
10090	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10087
10091	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10088
10092	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10089
10094	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10091
10095	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10092
10096	34-SoCal_Metals (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10093
10097	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10094
10098	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10095
10099	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10096
10100	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10097
10101	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10098
10102	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10099
10104	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10101
10105	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10102
10106	34-SoCal_Metals (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10103
10107	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10104
10108	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10105
10109	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10106
10110	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10107
10111	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10108
10112	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10109
10114	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10111
10115	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10112
10116	34-SoCal_Metals (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10113
10117	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10114
10118	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10115
10119	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10116
10120	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10117
10121	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10118
10122	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10119
10124	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10121
10125	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10122
10126	34-SoCal_Metals (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10123
10127	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10124
10128	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10125
10129	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10126

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
10130	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10127
10131	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10128
10132	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10129
10134	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10131
10135	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10132
10136	34-SoCal_Metals (HighAmbitious_ECOvens)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10133
10137	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10134
10138	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10135
10139	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10136
10140	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10137
10141	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10138
10142	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10139
10144	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10141
10145	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10142
10146	34-SoCal_Metals (HighAmbitious_ECOvens)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10143
10147	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10144
10148	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10145
10149	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10146
10150	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10147
10151	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10148
10152	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10149
10154	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10151
10155	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10152
10156	34-SoCal_Metals (HighAmbitious_ECOvens)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10153
10297	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10294
10298	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10295
10299	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10296
10300	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10297
10301	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10298
10302	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10299
10304	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10301
10305	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10302
10306	35-SoCal_Metals (HighAmbitious_ICEngines)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10303
10307	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10304
10308	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10305
10309	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10306
10310	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10307
10311	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	BSL NG Consumption (MMBtu/yr)	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10308
10312	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10309
10314	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10311
10315	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10312
10316	35-SoCal_Metals (HighAmbitious_ICEngines)	2031_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10313

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
10317	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10314
10318	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10315
10319	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10316
10320	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10317
10321	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10318
10322	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10319
10324	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10321
10325	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10322
10326	35-SoCal_Metals (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10323
10327	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10324
10328	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10325
10329	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10326
10330	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10327
10331	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10328
10332	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10329
10334	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10331
10335	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10332
10336	35-SoCal_Metals (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10333
10337	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10334
10338	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10335
10339	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10336
10340	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10337
10341	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10338
10342	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10339
10344	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10341
10345	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10342
10346	35-SoCal_Metals (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10343
10347	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10344
10348	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10345
10349	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10346
10350	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10347
10351	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10348
10352	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10349
10354	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10351
10355	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10352
10356	35-SoCal_Metals (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10353
10357	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10354
10358	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10355
10359	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10356
10360	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10357
10361	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10358
10362	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10359

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
10364	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10361
10365	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10362
10366	35-SoCal_Metals (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10363
10367	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10364
10368	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10365
10369	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10366
10370	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10367
10371	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10368
10372	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10369
10374	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10371
10375	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10372
10376	35-SoCal_Metals (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10373
10377	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10374
10378	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10375
10379	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10376
10380	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10377
10381	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10378
10382	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10379
10384	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10381
10385	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10382
10386	35-SoCal_Metals (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10383
10387	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10384
10388	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10385
10389	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10386
10390	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10387
10391	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10388
10392	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10389
10394	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10391
10395	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10392
10396	35-SoCal_Metals (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10393
10397	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10394
10398	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10395
10399	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10396
10400	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10397
10401	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10398
10402	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10399
10404	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10401
10405	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10402
10406	35-SoCal_Metals (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10403
10407	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10404
10408	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10405
10409	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10406

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
10410	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10407
10411	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10408
10412	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10409
10414	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10411
10415	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10412
10416	35-SoCal_Metals (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10413
10417	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10414
10418	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10415
10419	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10416
10420	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10417
10421	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10418
10422	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10419
10424	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10421
10425	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10422
10426	35-SoCal_Metals (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10423
10427	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10424
10428	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10425
10429	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10426
10430	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10427
10431	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10428
10432	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10429
10434	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10431
10435	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10432
10436	35-SoCal_Metals (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10433
10437	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10434
10438	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10435
10439	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10436
10440	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10437
10441	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10438
10442	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10439
10444	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10441
10445	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10442
10446	35-SoCal_Metals (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10443
10447	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10444
10448	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10445
10449	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10446
10450	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10447
10451	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10448
10452	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10449
10454	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10451
10455	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10452
10456	35-SoCal_Metals (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10453

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
10597	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10594
10598	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	1098762.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10595
10599	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10596
10600	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10597
10601	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	8124751.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10598
10602	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10599
10604	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10601
10605	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10602
10606	36-SoCal_Metals (HighAmbitious_ICTurbines)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10603
10607	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10604
10608	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	1250252.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10605
10609	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10606
10610	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10607
10611	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	BSL NG Consumption (MMBtu/yr)	8155346.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10608
10612	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10609
10614	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10611
10615	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10612
10616	36-SoCal_Metals (HighAmbitious_ICTurbines)	2031_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10613
10617	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10614
10618	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	PRJ H2 Demand (MMBtu/yr)	1393143.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10615
10619	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10616
10620	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10617
10621	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	BSL NG Consumption (MMBtu/yr)	8173460.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10618
10622	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10619
10624	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10621
10625	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10622
10626	36-SoCal_Metals (HighAmbitious_ICTurbines)	2032_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10623
10627	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10624
10628	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	PRJ H2 Demand (MMBtu/yr)	1526724.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10625
10629	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10626
10630	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10627
10631	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	BSL NG Consumption (MMBtu/yr)	8177000.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10628
10632	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10629
10634	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10631
10635	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10632
10636	36-SoCal_Metals (HighAmbitious_ICTurbines)	2033_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10633
10637	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10634
10638	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	PRJ H2 Demand (MMBtu/yr)	1669524.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10635
10639	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10636
10640	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10637
10641	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	BSL NG Consumption (MMBtu/yr)	8259407.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10638
10642	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10639

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
10644	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10641
10645	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10642
10646	36-SoCal_Metals (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10643
10647	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10644
10648	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1801052.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10645
10649	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10646
10650	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10647
10651	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8308620.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10648
10652	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10649
10654	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10651
10655	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10652
10656	36-SoCal_Metals (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10653
10657	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10654
10658	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1938399.29	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10655
10659	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10656
10660	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10657
10661	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8404104.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10658
10662	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10659
10664	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10661
10665	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10662
10666	36-SoCal_Metals (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10663
10667	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10664
10668	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2066909.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10665
10669	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10666
10670	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10667
10671	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8477359.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10668
10672	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10669
10674	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10671
10675	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10672
10676	36-SoCal_Metals (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10673
10677	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10674
10678	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2193849.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10675
10679	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10676
10680	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10677
10681	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8559537.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10678
10682	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10679
10684	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10681
10685	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10682
10686	36-SoCal_Metals (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10683
10687	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10684
10688	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2315526.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10685
10689	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10686

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
10690	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10687
10691	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8635097.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10688
10692	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10689
10694	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10691
10695	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10692
10696	36-SoCal_Metals (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10693
10697	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10694
10698	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2443131.40	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10695
10699	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10696
10700	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10697
10701	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8735544.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10698
10702	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10699
10704	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10701
10705	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10702
10706	36-SoCal_Metals (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10703
10707	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10704
10708	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2564808.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10705
10709	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10706
10710	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10707
10711	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8825510.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10708
10712	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10709
10714	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10711
10715	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10712
10716	36-SoCal_Metals (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10713
10717	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10714
10718	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2686345.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10715
10719	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10716
10720	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10717
10721	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	8924984.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10718
10722	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10719
10724	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10721
10725	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10722
10726	36-SoCal_Metals (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10723
10727	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10724
10728	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2809289.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10725
10729	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10726
10730	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10727
10731	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	9037683.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10728
10732	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10729
10734	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10731
10735	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10732
10736	36-SoCal_Metals (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10733

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
10737	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10734
10738	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	2925413.56	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10735
10739	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10736
10740	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10737
10741	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	9136463.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10738
10742	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10739
10744	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10741
10745	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10742
10746	36-SoCal_Metals (HighAmbitious_ICTurbines)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10743
10747	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10744
10748	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	3034179.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10745
10749	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10746
10750	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10747
10751	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	9220600.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10748
10752	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10749
10754	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10751
10755	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10752
10756	36-SoCal_Metals (HighAmbitious_ICTurbines)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10753
10897	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10894
10898	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	2402691.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10895
10899	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10896
10900	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10897
10901	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10898
10902	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10899
10904	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10901
10905	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10902
10906	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10903
10907	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10904
10908	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	2729714.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10905
10909	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10906
10910	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10907
10911	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	BSL NG Consumption (MMBtu/yr)	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10908
10912	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10909
10914	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10911
10915	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10912
10916	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2031_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10913
10917	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10914
10918	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	PRJ H2 Demand (MMBtu/yr)	3032112.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10915
10919	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10916
10920	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10917
10921	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	BSL NG Consumption (MMBtu/yr)	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10918
10922	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10919

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
10924	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10921
10925	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10922
10926	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10923
10927	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10924
10928	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3310783.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10925
10929	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10926
10930	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10927
10931	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10928
10932	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10929
10934	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10931
10935	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10932
10936	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10933
10937	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10934
10938	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3566830.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10935
10939	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10936
10940	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10937
10941	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10938
10942	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10939
10944	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10941
10945	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10942
10946	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10943
10947	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10944
10948	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3801530.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10945
10949	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10946
10950	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10947
10951	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10948
10952	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10949
10954	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10951
10955	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10952
10956	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10953
10957	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10954
10958	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4016291.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10955
10959	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10956
10960	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10957
10961	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10958
10962	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10959
10964	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10961
10965	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10962
10966	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10963
10967	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10964
10968	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4212593.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10965
10969	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10966

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
10970	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10967
10971	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10968
10972	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10969
10974	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10971
10975	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10972
10976	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10973
10977	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10974
10978	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4391934.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10975
10979	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10976
10980	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10977
10981	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10978
10982	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10979
10984	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10981
10985	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10982
10986	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10983
10987	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10984
10988	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4555776.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10985
10989	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10986
10990	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10987
10991	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10988
10992	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10989
10994	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10991
10995	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10992
10996	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10993
10997	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10994
10998	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4709259.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10995
10999	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10996
11000	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10997
11001	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10998
11002	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT10999
11004	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11001
11005	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11002
11006	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11003
11007	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11004
11008	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4849740.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11005
11009	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11006
11010	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11007
11011	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11008
11012	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11009
11014	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11011
11015	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11012
11016	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11013

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11017	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11014
11018	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4978431.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11015
11019	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11016
11020	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11017
11021	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11018
11022	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11019
11024	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11021
11025	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11022
11026	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11023
11027	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11024
11028	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5096440.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11025
11029	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11026
11030	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11027
11031	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11028
11032	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11029
11034	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11031
11035	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11032
11036	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11033
11037	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11034
11038	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5204765.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11035
11039	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11036
11040	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11037
11041	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11038
11042	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11039
11044	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11041
11045	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11042
11046	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11043
11047	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11044
11048	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5304309.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11045
11049	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11046
11050	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11047
11051	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11048
11052	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11049
11054	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11051
11055	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11052
11056	37-SoCal_StoneGlassCement (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11053
11197	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11194
11198	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2402691.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11195
11199	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11196
11200	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11197
11201	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11198
11202	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11199

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11204	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11201
11205	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11202
11206	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11203
11207	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11204
11208	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2729714.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11205
11209	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11206
11210	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11207
11211	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11208
11212	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11209
11214	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11211
11215	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11212
11216	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11213
11217	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11214
11218	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3032112.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11215
11219	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11216
11220	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11217
11221	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11218
11222	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11219
11224	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11221
11225	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11222
11226	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11223
11227	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11224
11228	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3310783.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11225
11229	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11226
11230	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11227
11231	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11228
11232	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11229
11234	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11231
11235	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11232
11236	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11233
11237	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11234
11238	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3566830.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11235
11239	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11236
11240	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11237
11241	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11238
11242	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11239
11244	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11241
11245	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11242
11246	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11243
11247	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11244
11248	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3801530.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11245
11249	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11246

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
11250	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11247
11251	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	BSL NG Consumption (MMBtu/yr)	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11248
11252	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11249
11254	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11251
11255	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11252
11256	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2035_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11253
11257	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11254
11258	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	PRJ H2 Demand (MMBtu/yr)	4016291.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11255
11259	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11256
11260	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11257
11261	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	BSL NG Consumption (MMBtu/yr)	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11258
11262	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11259
11264	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11261
11265	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11262
11266	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2036_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11263
11267	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11264
11268	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	PRJ H2 Demand (MMBtu/yr)	4212593.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11265
11269	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11266
11270	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11267
11271	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	BSL NG Consumption (MMBtu/yr)	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11268
11272	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11269
11274	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11271
11275	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11272
11276	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2037_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11273
11277	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11274
11278	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	4391934.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11275
11279	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11276
11280	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11277
11281	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11278
11282	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11279
11284	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11281
11285	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11282
11286	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2038_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11283
11287	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11284
11288	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	PRJ H2 Demand (MMBtu/yr)	4555776.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11285
11289	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11286
11290	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11287
11291	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	BSL NG Consumption (MMBtu/yr)	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11288
11292	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11289
11294	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11291
11295	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11292
11296	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2039_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11293

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11297	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11294
11298	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4709259.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11295
11299	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11296
11300	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11297
11301	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11298
11302	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11299
11304	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11301
11305	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11302
11306	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11303
11307	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11304
11308	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4849740.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11305
11309	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11306
11310	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11307
11311	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11308
11312	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11309
11314	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11311
11315	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11312
11316	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11313
11317	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11314
11318	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4978431.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11315
11319	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11316
11320	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11317
11321	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11318
11322	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11319
11324	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11321
11325	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11322
11326	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11323
11327	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11324
11328	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5096440.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11325
11329	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11326
11330	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11327
11331	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11328
11332	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11329
11334	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11331
11335	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11332
11336	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11333
11337	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11334
11338	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5204765.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11335
11339	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11336
11340	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11337
11341	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11338
11342	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11339

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11344	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11341
11345	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11342
11346	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11343
11347	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11344
11348	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5304309.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11345
11349	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11346
11350	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11347
11351	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11348
11352	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11349
11354	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11351
11355	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11352
11356	38-SoCal_StoneGlassCement (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11353
11497	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11494
11498	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2402691.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11495
11499	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11496
11500	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11497
11501	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11498
11502	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11499
11504	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11501
11505	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11502
11506	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11503
11507	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11504
11508	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2729714.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11505
11509	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11506
11510	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11507
11511	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11508
11512	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11509
11514	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11511
11515	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11512
11516	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11513
11517	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11514
11518	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3032112.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11515
11519	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11516
11520	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11517
11521	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11518
11522	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11519
11524	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11521
11525	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11522
11526	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11523
11527	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11524
11528	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3310783.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11525
11529	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11526

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11530	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11527
11531	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11528
11532	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11529
11534	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11531
11535	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11532
11536	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11533
11537	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11534
11538	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3566830.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11535
11539	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11536
11540	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11537
11541	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11538
11542	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11539
11544	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11541
11545	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11542
11546	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11543
11547	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11544
11548	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3801530.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11545
11549	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11546
11550	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11547
11551	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11548
11552	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11549
11554	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11551
11555	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11552
11556	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11553
11557	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11554
11558	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4016291.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11555
11559	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11556
11560	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11557
11561	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11558
11562	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11559
11564	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11561
11565	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11562
11566	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11563
11567	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11564
11568	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4212593.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11565
11569	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11566
11570	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11567
11571	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11568
11572	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11569
11574	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11571
11575	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11572
11576	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11573

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11577	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11574
11578	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4391934.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11575
11579	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11576
11580	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11577
11581	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11578
11582	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11579
11584	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11581
11585	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11582
11586	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11583
11587	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11584
11588	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4555776.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11585
11589	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11586
11590	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11587
11591	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11588
11592	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11589
11594	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11591
11595	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11592
11596	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11593
11597	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11594
11598	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4709259.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11595
11599	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11596
11600	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11597
11601	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11598
11602	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11599
11604	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11601
11605	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11602
11606	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11603
11607	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11604
11608	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4849740.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11605
11609	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11606
11610	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11607
11611	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11608
11612	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11609
11614	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11611
11615	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11612
11616	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11613
11617	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11614
11618	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4978431.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11615
11619	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11616
11620	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11617
11621	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11618
11622	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11619

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
11624	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11621
11625	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11622
11626	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11623
11627	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11624
11628	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	5096440.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11625
11629	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11626
11630	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11627
11631	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11628
11632	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11629
11634	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11631
11635	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11632
11636	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11633
11637	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11634
11638	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	5204765.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11635
11639	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11636
11640	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11637
11641	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11638
11642	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11639
11644	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11641
11645	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11642
11646	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11643
11647	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11644
11648	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	5304309.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11645
11649	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11646
11650	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11647
11651	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11648
11652	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11649
11654	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11651
11655	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11652
11656	39-SoCal_StoneGlassCement (LowConservative_ICEngines)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11653
11797	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11794
11798	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	2402691.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11795
11799	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11796
11800	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11797
11801	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11798
11802	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11799
11804	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11801
11805	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11802
11806	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11803
11807	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11804
11808	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	2729714.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11805
11809	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11806

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11810	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11807
11811	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11808
11812	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11809
11814	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11811
11815	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11812
11816	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11813
11817	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11814
11818	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3032112.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11815
11819	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11816
11820	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11817
11821	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11818
11822	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11819
11824	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11821
11825	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11822
11826	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11823
11827	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11824
11828	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3310783.75	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11825
11829	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11826
11830	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11827
11831	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11828
11832	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11829
11834	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11831
11835	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11832
11836	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11833
11837	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11834
11838	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3566830.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11835
11839	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11836
11840	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11837
11841	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11838
11842	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11839
11844	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11841
11845	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11842
11846	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11843
11847	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11844
11848	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3801530.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11845
11849	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11846
11850	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11847
11851	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11848
11852	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11849
11854	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11851
11855	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11852
11856	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11853

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
11857	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11854
11858	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4016291.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11855
11859	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11856
11860	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11857
11861	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11858
11862	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11859
11864	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11861
11865	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11862
11866	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11863
11867	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11864
11868	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4212593.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11865
11869	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11866
11870	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11867
11871	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11868
11872	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11869
11874	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11871
11875	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11872
11876	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11873
11877	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11874
11878	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4391934.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11875
11879	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11876
11880	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11877
11881	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11878
11882	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11879
11884	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11881
11885	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11882
11886	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11883
11887	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11884
11888	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4555776.57	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11885
11889	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11886
11890	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11887
11891	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11888
11892	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11889
11894	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11891
11895	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11892
11896	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11893
11897	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11894
11898	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4709259.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11895
11899	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11896
11900	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11897
11901	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11898
11902	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11899

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11904	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11901
11905	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11902
11906	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11903
11907	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11904
11908	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4849740.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11905
11909	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11906
11910	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11907
11911	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11908
11912	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11909
11914	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11911
11915	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11912
11916	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11913
11917	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11914
11918	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4978431.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11915
11919	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11916
11920	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11917
11921	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11918
11922	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11919
11924	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11921
11925	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11922
11926	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11923
11927	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11924
11928	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5096440.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11925
11929	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11926
11930	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11927
11931	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11928
11932	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11929
11934	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11931
11935	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11932
11936	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11933
11937	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11934
11938	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5204765.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11935
11939	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11936
11940	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11937
11941	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11938
11942	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11939
11944	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11941
11945	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11942
11946	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11943
11947	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11944
11948	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5304309.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11945
11949	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11946

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
11950	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11947
11951	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11948
11952	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11949
11954	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11951
11955	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11952
11956	40-SoCal_StoneGlassCement (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT11953
12097	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12094
12098	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12095
12099	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12096
12100	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12097
12101	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12098
12102	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12099
12104	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12101
12105	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12102
12106	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12103
12107	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12104
12108	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12105
12109	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12106
12110	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12107
12111	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12108
12112	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12109
12114	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12111
12115	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12112
12116	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12113
12117	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12114
12118	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12115
12119	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12116
12120	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12117
12121	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12118
12122	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12119
12124	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12121
12125	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12122
12126	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12123
12127	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12124
12128	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12125
12129	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12126
12130	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12127
12131	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12128
12132	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12129
12134	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12131
12135	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12132
12136	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12133

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12137	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12134
12138	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12135
12139	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12136
12140	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12137
12141	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12138
12142	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12139
12144	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12141
12145	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12142
12146	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12143
12147	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12144
12148	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12145
12149	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12146
12150	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12147
12151	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12148
12152	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12149
12154	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12151
12155	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12152
12156	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12153
12157	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12154
12158	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12155
12159	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12156
12160	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12157
12161	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12158
12162	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12159
12164	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12161
12165	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12162
12166	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12163
12167	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12164
12168	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12165
12169	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12166
12170	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12167
12171	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12168
12172	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12169
12174	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12171
12175	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12172
12176	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12173
12177	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12174
12178	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12175
12179	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12176
12180	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12177
12181	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12178
12182	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12179

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12184	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12181
12185	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12182
12186	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12183
12187	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12184
12188	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12185
12189	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12186
12190	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12187
12191	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12188
12192	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12189
12194	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12191
12195	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12192
12196	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12193
12197	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12194
12198	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12195
12199	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12196
12200	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12197
12201	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12198
12202	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12199
12204	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12201
12205	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12202
12206	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12203
12207	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12204
12208	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12205
12209	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12206
12210	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12207
12211	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12208
12212	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12209
12214	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12211
12215	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12212
12216	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12213
12217	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12214
12218	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12215
12219	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12216
12220	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12217
12221	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12218
12222	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12219
12224	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12221
12225	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12222
12226	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12223
12227	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12224
12228	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12225
12229	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12226

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12230	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12227
12231	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12228
12232	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12229
12234	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12231
12235	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12232
12236	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12233
12237	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12234
12238	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12235
12239	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12236
12240	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12237
12241	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12238
12242	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12239
12244	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12241
12245	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12242
12246	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12243
12247	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12244
12248	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12245
12249	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12246
12250	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12247
12251	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12248
12252	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12249
12254	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12251
12255	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12252
12256	41-SoCal_StoneGlassCement (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12253
12397	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12394
12398	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12395
12399	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12396
12400	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12397
12401	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12398
12402	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12399
12404	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12401
12405	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12402
12406	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12403
12407	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12404
12408	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12405
12409	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12406
12410	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12407
12411	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12408
12412	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12409
12414	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12411
12415	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12412
12416	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12413

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12417	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12414
12418	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12415
12419	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12416
12420	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12417
12421	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12418
12422	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12419
12424	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12421
12425	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12422
12426	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12423
12427	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12424
12428	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12425
12429	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12426
12430	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12427
12431	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12428
12432	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12429
12434	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12431
12435	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12432
12436	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12433
12437	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12434
12438	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12435
12439	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12436
12440	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12437
12441	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12438
12442	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12439
12444	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12441
12445	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12442
12446	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12443
12447	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12444
12448	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12445
12449	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12446
12450	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12447
12451	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12448
12452	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12449
12454	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12451
12455	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12452
12456	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12453
12457	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12454
12458	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12455
12459	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12456
12460	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12457
12461	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12458
12462	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12459

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12464	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12461
12465	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12462
12466	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12463
12467	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12464
12468	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12465
12469	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12466
12470	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12467
12471	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12468
12472	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12469
12474	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12471
12475	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12472
12476	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12473
12477	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12474
12478	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12475
12479	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12476
12480	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12477
12481	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12478
12482	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12479
12484	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12481
12485	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12482
12486	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12483
12487	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12484
12488	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12485
12489	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12486
12490	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12487
12491	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12488
12492	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12489
12494	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12491
12495	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12492
12496	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12493
12497	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12494
12498	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12495
12499	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12496
12500	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12497
12501	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12498
12502	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12499
12504	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12501
12505	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12502
12506	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12503
12507	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12504
12508	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12505
12509	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12506

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
12510	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12507
12511	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12508
12512	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12509
12514	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12511
12515	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12512
12516	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12513
12517	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12514
12518	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12515
12519	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12516
12520	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12517
12521	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12518
12522	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12519
12524	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12521
12525	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12522
12526	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12523
12527	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12524
12528	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12525
12529	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12526
12530	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12527
12531	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12528
12532	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12529
12534	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12531
12535	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12532
12536	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12533
12537	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12534
12538	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12535
12539	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12536
12540	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12537
12541	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12538
12542	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12539
12544	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12541
12545	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12542
12546	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12543
12547	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12544
12548	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12545
12549	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12546
12550	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12547
12551	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12548
12552	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12549
12554	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12551
12555	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12552
12556	42-SoCal_StoneGlassCement (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12553

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12697	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12694
12698	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12695
12699	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12696
12700	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12697
12701	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12698
12702	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12699
12704	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12701
12705	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12702
12706	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12703
12707	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12704
12708	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12705
12709	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12706
12710	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12707
12711	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12708
12712	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12709
12714	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12711
12715	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12712
12716	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12713
12717	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12714
12718	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12715
12719	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12716
12720	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12717
12721	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12718
12722	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12719
12724	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12721
12725	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12722
12726	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12723
12727	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12724
12728	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12725
12729	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12726
12730	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12727
12731	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12728
12732	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12729
12734	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12731
12735	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12732
12736	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12733
12737	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12734
12738	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12735
12739	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12736
12740	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12737
12741	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12738
12742	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12739

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
12744	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12741
12745	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12742
12746	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12743
12747	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12744
12748	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12745
12749	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12746
12750	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12747
12751	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12748
12752	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12749
12754	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12751
12755	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12752
12756	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12753
12757	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12754
12758	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12755
12759	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12756
12760	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12757
12761	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12758
12762	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12759
12764	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12761
12765	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12762
12766	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12763
12767	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12764
12768	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12765
12769	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12766
12770	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12767
12771	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12768
12772	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12769
12774	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12771
12775	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12772
12776	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12773
12777	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12774
12778	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12775
12779	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12776
12780	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12777
12781	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12778
12782	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12779
12784	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12781
12785	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12782
12786	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12783
12787	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12784
12788	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12785
12789	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12786

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12790	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12787
12791	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12788
12792	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12789
12794	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12791
12795	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12792
12796	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12793
12797	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12794
12798	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12795
12799	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12796
12800	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12797
12801	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12798
12802	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12799
12804	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12801
12805	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12802
12806	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12803
12807	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12804
12808	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12805
12809	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12806
12810	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12807
12811	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12808
12812	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12809
12814	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12811
12815	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12812
12816	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12813
12817	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12814
12818	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12815
12819	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12816
12820	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12817
12821	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12818
12822	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12819
12824	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12821
12825	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12822
12826	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12823
12827	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12824
12828	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12825
12829	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12826
12830	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12827
12831	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12828
12832	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12829
12834	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12831
12835	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12832
12836	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12833

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
12837	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12834
12838	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12835
12839	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12836
12840	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12837
12841	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12838
12842	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12839
12844	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12841
12845	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12842
12846	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12843
12847	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12844
12848	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12845
12849	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12846
12850	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12847
12851	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12848
12852	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12849
12854	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12851
12855	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12852
12856	43-SoCal_StoneGlassCement (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12853
12997	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12994
12998	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12995
12999	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12996
13000	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12997
13001	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12998
13002	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12999
13004	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13001
13005	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13002
13006	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13003
13007	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13004
13008	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13005
13009	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13006
13010	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13007
13011	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13008
13012	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13009
13014	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13011
13015	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13012
13016	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13013
13017	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13014
13018	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13015
13019	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13016
13020	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13017
13021	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13018
13022	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13019

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13024	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13021
13025	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13022
13026	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13023
13027	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13024
13028	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13025
13029	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13026
13030	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13027
13031	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13028
13032	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13029
13034	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13031
13035	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13032
13036	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13033
13037	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13034
13038	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13035
13039	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13036
13040	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13037
13041	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13038
13042	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13039
13044	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13041
13045	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13042
13046	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13043
13047	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13044
13048	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13045
13049	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13046
13050	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13047
13051	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13048
13052	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13049
13054	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13051
13055	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13052
13056	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13053
13057	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13054
13058	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13055
13059	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13056
13060	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13057
13061	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13058
13062	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13059
13064	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13061
13065	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13062
13066	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13063
13067	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13064
13068	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13065
13069	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13066

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13070	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13067
13071	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13068
13072	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13069
13074	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13071
13075	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13072
13076	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13073
13077	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13074
13078	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13075
13079	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13076
13080	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13077
13081	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13078
13082	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13079
13084	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13081
13085	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13082
13086	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13083
13087	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13084
13088	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13085
13089	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13086
13090	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13087
13091	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13088
13092	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13089
13094	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13091
13095	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13092
13096	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13093
13097	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13094
13098	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13095
13099	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13096
13100	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13097
13101	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13098
13102	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13099
13104	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13101
13105	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13102
13106	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13103
13107	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13104
13108	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13105
13109	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13106
13110	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13107
13111	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13108
13112	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13109
13114	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13111
13115	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13112
13116	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13113

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13117	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13114
13118	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13115
13119	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13116
13120	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13117
13121	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13118
13122	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13119
13124	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13121
13125	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13122
13126	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13123
13127	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13124
13128	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13125
13129	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13126
13130	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13127
13131	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13128
13132	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13129
13134	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13131
13135	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13132
13136	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13133
13137	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13134
13138	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13135
13139	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13136
13140	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13137
13141	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13138
13142	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13139
13144	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13141
13145	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13142
13146	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13143
13147	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13144
13148	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13145
13149	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13146
13150	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13147
13151	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13148
13152	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13149
13154	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13151
13155	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13152
13156	44-SoCal_StoneGlassCement (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13153
13297	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13294
13298	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13295
13299	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13296
13300	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13297
13301	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13298
13302	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13299

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13304	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13301
13305	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13302
13306	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13303
13307	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13304
13308	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13305
13309	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13306
13310	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13307
13311	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13308
13312	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13309
13314	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13311
13315	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13312
13316	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13313
13317	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13314
13318	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13315
13319	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13316
13320	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13317
13321	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13318
13322	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13319
13324	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13321
13325	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13322
13326	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13323
13327	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13324
13328	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13325
13329	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13326
13330	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13327
13331	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13328
13332	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13329
13334	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13331
13335	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13332
13336	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13333
13337	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13334
13338	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13335
13339	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13336
13340	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13337
13341	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13338
13342	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13339
13344	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13341
13345	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13342
13346	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13343
13347	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13344
13348	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13345
13349	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13346

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13350	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13347
13351	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13348
13352	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13349
13354	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13351
13355	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13352
13356	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13353
13357	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13354
13358	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13355
13359	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13356
13360	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13357
13361	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13358
13362	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13359
13364	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13361
13365	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13362
13366	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13363
13367	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13364
13368	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13365
13369	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13366
13370	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13367
13371	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13368
13372	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13369
13374	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13371
13375	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13372
13376	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13373
13377	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13374
13378	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13375
13379	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13376
13380	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13377
13381	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13378
13382	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13379
13384	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13381
13385	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13382
13386	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13383
13387	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13384
13388	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13385
13389	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13386
13390	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13387
13391	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13388
13392	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13389
13394	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13391
13395	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13392
13396	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13393

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13397	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13394
13398	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13395
13399	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13396
13400	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13397
13401	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13398
13402	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13399
13404	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13401
13405	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13402
13406	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13403
13407	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13404
13408	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13405
13409	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13406
13410	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13407
13411	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13408
13412	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13409
13414	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13411
13415	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13412
13416	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13413
13417	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13414
13418	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13415
13419	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13416
13420	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13417
13421	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13418
13422	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13419
13424	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13421
13425	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13422
13426	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13423
13427	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13424
13428	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13425
13429	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13426
13430	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13427
13431	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13428
13432	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13429
13434	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13431
13435	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13432
13436	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13433
13437	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13434
13438	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13435
13439	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13436
13440	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13437
13441	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13438
13442	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13439

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13444	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13441
13445	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13442
13446	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13443
13447	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13444
13448	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13445
13449	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13446
13450	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13447
13451	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13448
13452	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13449
13454	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13451
13455	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13452
13456	45-SoCal_StoneGlassCement (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13453
13597	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13594
13598	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13595
13599	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13596
13600	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13597
13601	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13598
13602	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13599
13604	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13601
13605	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13602
13606	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13603
13607	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13604
13608	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13605
13609	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13606
13610	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13607
13611	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13608
13612	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13609
13614	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13611
13615	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13612
13616	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13613
13617	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13614
13618	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13615
13619	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13616
13620	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13617
13621	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13618
13622	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13619
13624	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13621
13625	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13622
13626	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13623
13627	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13624
13628	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13625
13629	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13626

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13630	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13627
13631	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13628
13632	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13629
13634	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13631
13635	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13632
13636	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13633
13637	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13634
13638	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13635
13639	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13636
13640	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13637
13641	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13638
13642	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13639
13644	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13641
13645	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13642
13646	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13643
13647	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13644
13648	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13645
13649	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13646
13650	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13647
13651	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13648
13652	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13649
13654	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13651
13655	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13652
13656	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13653
13657	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13654
13658	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13655
13659	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13656
13660	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13657
13661	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13658
13662	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13659
13664	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13661
13665	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13662
13666	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13663
13667	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13664
13668	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13665
13669	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13666
13670	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13667
13671	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13668
13672	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13669
13674	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13671
13675	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13672
13676	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13673

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
13677	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13674
13678	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13675
13679	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13676
13680	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13677
13681	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13678
13682	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13679
13684	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13681
13685	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13682
13686	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13683
13687	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13684
13688	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13685
13689	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13686
13690	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13687
13691	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13688
13692	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13689
13694	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13691
13695	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13692
13696	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13693
13697	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13694
13698	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13695
13699	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13696
13700	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13697
13701	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13698
13702	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13699
13704	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13701
13705	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13702
13706	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13703
13707	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13704
13708	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13705
13709	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13706
13710	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13707
13711	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13708
13712	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13709
13714	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13711
13715	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13712
13716	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13713
13717	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13714
13718	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13715
13719	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13716
13720	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13717
13721	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13718
13722	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13719

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13724	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13721
13725	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13722
13726	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13723
13727	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13724
13728	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13725
13729	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13726
13730	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13727
13731	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13728
13732	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13729
13734	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13731
13735	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13732
13736	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13733
13737	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13734
13738	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13735
13739	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13736
13740	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13737
13741	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13738
13742	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13739
13744	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13741
13745	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13742
13746	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13743
13747	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13744
13748	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13745
13749	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13746
13750	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13747
13751	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13748
13752	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13749
13754	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13751
13755	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13752
13756	46-SoCal_StoneGlassCement (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13753
13897	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13894
13898	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13895
13899	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13896
13900	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13897
13901	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13898
13902	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13899
13904	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13901
13905	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13902
13906	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13903
13907	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13904
13908	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13905
13909	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13906

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13910	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13907
13911	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13908
13912	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13909
13914	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13911
13915	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13912
13916	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13913
13917	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13914
13918	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13915
13919	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13916
13920	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13917
13921	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13918
13922	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13919
13924	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13921
13925	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13922
13926	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13923
13927	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13924
13928	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13925
13929	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13926
13930	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13927
13931	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13928
13932	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13929
13934	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13931
13935	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13932
13936	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13933
13937	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13934
13938	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13935
13939	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13936
13940	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13937
13941	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13938
13942	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13939
13944	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13941
13945	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13942
13946	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13943
13947	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13944
13948	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13945
13949	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13946
13950	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13947
13951	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13948
13952	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13949
13954	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13951
13955	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13952
13956	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13953

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
13957	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13954
13958	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13955
13959	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13956
13960	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13957
13961	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13958
13962	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13959
13964	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13961
13965	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13962
13966	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13963
13967	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13964
13968	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13965
13969	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13966
13970	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13967
13971	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13968
13972	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13969
13974	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13971
13975	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13972
13976	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13973
13977	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13974
13978	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13975
13979	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13976
13980	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13977
13981	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13978
13982	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13979
13984	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13981
13985	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13982
13986	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13983
13987	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13984
13988	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13985
13989	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13986
13990	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13987
13991	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13988
13992	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13989
13994	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13991
13995	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13992
13996	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13993
13997	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13994
13998	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13995
13999	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13996
14000	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13997
14001	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13998
14002	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT13999

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14004	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14001
14005	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14002
14006	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14003
14007	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14004
14008	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14005
14009	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14006
14010	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14007
14011	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14008
14012	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14009
14014	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14011
14015	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14012
14016	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14013
14017	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14014
14018	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14015
14019	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14016
14020	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14017
14021	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14018
14022	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14019
14024	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14021
14025	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14022
14026	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14023
14027	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14024
14028	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14025
14029	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14026
14030	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14027
14031	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14028
14032	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14029
14034	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14031
14035	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14032
14036	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14033
14037	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14034
14038	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14035
14039	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14036
14040	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14037
14041	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14038
14042	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14039
14044	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14041
14045	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14042
14046	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14043
14047	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14044
14048	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14045
14049	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14046

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14050	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14047
14051	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14048
14052	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14049
14054	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14051
14055	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14052
14056	47-SoCal_StoneGlassCement (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14053
14197	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14194
14198	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2495422.15	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14195
14199	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14196
14200	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14197
14201	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23343391.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14198
14202	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14199
14204	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14201
14205	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14202
14206	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14203
14207	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14204
14208	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	2916764.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14205
14209	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14206
14210	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14207
14211	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23837736.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14208
14212	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14209
14214	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14211
14215	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14212
14216	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14213
14217	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14214
14218	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3268490.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14215
14219	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14216
14220	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14217
14221	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23850978.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14218
14222	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14219
14224	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14221
14225	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14222
14226	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14223
14227	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14224
14228	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3537468.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14225
14229	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14226
14230	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14227
14231	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23430630.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14228
14232	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14229
14234	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14231
14235	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14232
14236	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14233

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
14237	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14234
14238	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	3886875.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14235
14239	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14236
14240	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14237
14241	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23670003.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14238
14242	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14239
14244	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14241
14245	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14242
14246	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14243
14247	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14244
14248	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4163932.52	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14245
14249	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14246
14250	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14247
14251	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23554614.35	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14248
14252	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14249
14254	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14251
14255	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14252
14256	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14253
14257	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14254
14258	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4338603.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14255
14259	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14256
14260	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14257
14261	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22990822.64	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14258
14262	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14259
14264	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14261
14265	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14262
14266	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14263
14267	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14264
14268	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4702692.61	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14265
14269	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14266
14270	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14267
14271	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23508695.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14268
14272	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14269
14274	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14271
14275	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14272
14276	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14273
14277	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14274
14278	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4865118.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14275
14279	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14276
14280	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14277
14281	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	23079386.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14278
14282	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14279

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14284	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14281
14285	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14282
14286	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14283
14287	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14284
14288	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	4964382.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14285
14289	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14286
14290	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14287
14291	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	22461695.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14288
14292	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14289
14294	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14291
14295	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14292
14296	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14293
14297	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14294
14298	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5047647.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14295
14299	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14296
14300	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14297
14301	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21860728.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14298
14302	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14299
14304	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14301
14305	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14302
14306	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14303
14307	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14304
14308	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5190274.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14305
14309	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14306
14310	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14307
14311	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21600044.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14308
14312	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14309
14314	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14311
14315	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14312
14316	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14313
14317	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14314
14318	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5299429.92	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14315
14319	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14316
14320	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14317
14321	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21264931.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14318
14322	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14319
14324	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14321
14325	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14322
14326	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14323
14327	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14324
14328	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5417420.28	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14325
14329	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14326

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14330	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14327
14331	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	21023548.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14328
14332	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14329
14334	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14331
14335	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14332
14336	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14333
14337	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14334
14338	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5549529.69	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14335
14339	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14336
14340	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14337
14341	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20883826.99	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14338
14342	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14339
14344	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14341
14345	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14342
14346	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14343
14347	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14344
14348	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	5635757.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14345
14349	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14346
14350	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14347
14351	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	20615033.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14348
14352	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14349
14354	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14351
14355	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14352
14356	48-SoCal_StoneGlassCement (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14353
14497	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14494
14498	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283751.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14495
14499	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14496
14500	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14497
14501	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14498
14502	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14499
14504	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14501
14505	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14502
14506	49-SoCal_Paper (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14503
14507	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14504
14508	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	337327.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14505
14509	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14506
14510	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14507
14511	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14508
14512	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14509
14514	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14511
14515	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14512
14516	49-SoCal_Paper (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14513

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14517	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14514
14518	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	387262.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14515
14519	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14516
14520	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14517
14521	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14518
14522	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14519
14524	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14521
14525	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14522
14526	49-SoCal_Paper (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14523
14527	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14524
14528	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	433690.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14525
14529	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14526
14530	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14527
14531	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14528
14532	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14529
14534	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14531
14535	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14532
14536	49-SoCal_Paper (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14533
14537	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14534
14538	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476767.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14535
14539	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14536
14540	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14537
14541	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14538
14542	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14539
14544	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14541
14545	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14542
14546	49-SoCal_Paper (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14543
14547	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14544
14548	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	516672.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14545
14549	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14546
14550	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14547
14551	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14548
14552	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14549
14554	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14551
14555	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14552
14556	49-SoCal_Paper (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14553
14557	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14554
14558	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	553597.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14555
14559	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14556
14560	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14557
14561	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14558
14562	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14559

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14564	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14561
14565	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14562
14566	49-SoCal_Paper (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14563
14567	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14564
14568	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	587741.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14565
14569	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14566
14570	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14567
14571	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14568
14572	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14569
14574	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14571
14575	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14572
14576	49-SoCal_Paper (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14573
14577	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14574
14578	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	619308.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14575
14579	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14576
14580	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14577
14581	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14578
14582	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14579
14584	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14581
14585	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14582
14586	49-SoCal_Paper (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14583
14587	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14584
14588	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	648497.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14585
14589	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14586
14590	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14587
14591	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14588
14592	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14589
14594	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14591
14595	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14592
14596	49-SoCal_Paper (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14593
14597	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14594
14598	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	694142.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14595
14599	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14596
14600	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14597
14601	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14598
14602	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14599
14604	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14601
14605	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14602
14606	49-SoCal_Paper (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14603
14607	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14604
14608	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	736567.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14605
14609	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14606

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14610	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14607
14611	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14608
14612	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14609
14614	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14611
14615	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14612
14616	49-SoCal_Paper (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14613
14617	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14614
14618	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	776020.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14615
14619	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14616
14620	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14617
14621	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14618
14622	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14619
14624	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14621
14625	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14622
14626	49-SoCal_Paper (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14623
14627	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14624
14628	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	812729.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14625
14629	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14626
14630	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14627
14631	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14628
14632	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14629
14634	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14631
14635	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14632
14636	49-SoCal_Paper (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14633
14637	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14634
14638	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	846910.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14635
14639	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14636
14640	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14637
14641	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14638
14642	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14639
14644	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14641
14645	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14642
14646	49-SoCal_Paper (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14643
14647	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14644
14648	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	878757.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14645
14649	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14646
14650	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14647
14651	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14648
14652	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14649
14654	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14651
14655	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14652
14656	49-SoCal_Paper (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14653

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
14797	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14794
14798	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283751.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14795
14799	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14796
14800	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14797
14801	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14798
14802	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14799
14804	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14801
14805	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14802
14806	50-SoCal_Paper (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14803
14807	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14804
14808	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	337327.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14805
14809	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14806
14810	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14807
14811	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14808
14812	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14809
14814	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14811
14815	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14812
14816	50-SoCal_Paper (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14813
14817	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14814
14818	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	387262.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14815
14819	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14816
14820	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14817
14821	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14818
14822	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14819
14824	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14821
14825	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14822
14826	50-SoCal_Paper (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14823
14827	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14824
14828	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	433690.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14825
14829	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14826
14830	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14827
14831	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14828
14832	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14829
14834	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14831
14835	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14832
14836	50-SoCal_Paper (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14833
14837	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14834
14838	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476767.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14835
14839	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14836
14840	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14837
14841	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14838
14842	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14839

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	Value	Reference
14844	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14841
14845	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14842
14846	50-SoCal_Paper (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14843
14847	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14844
14848	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	516672.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14845
14849	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14846
14850	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14847
14851	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14848
14852	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14849
14854	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14851
14855	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14852
14856	50-SoCal_Paper (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14853
14857	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14854
14858	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	553597.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14855
14859	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14856
14860	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14857
14861	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14858
14862	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14859
14864	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14861
14865	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14862
14866	50-SoCal_Paper (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14863
14867	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14864
14868	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	587741.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14865
14869	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14866
14870	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14867
14871	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14868
14872	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14869
14874	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14871
14875	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14872
14876	50-SoCal_Paper (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14873
14877	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14874
14878	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	619308.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14875
14879	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14876
14880	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14877
14881	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14878
14882	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14879
14884	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14881
14885	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14882
14886	50-SoCal_Paper (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14883
14887	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14884
14888	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	648497.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14885
14889	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14886

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
14890	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14887
14891	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14888
14892	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14889
14894	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14891
14895	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14892
14896	50-SoCal_Paper (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14893
14897	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14894
14898	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	694142.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14895
14899	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14896
14900	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14897
14901	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14898
14902	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14899
14904	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14901
14905	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14902
14906	50-SoCal_Paper (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14903
14907	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14904
14908	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	736567.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14905
14909	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14906
14910	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14907
14911	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14908
14912	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14909
14914	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14911
14915	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14912
14916	50-SoCal_Paper (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14913
14917	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14914
14918	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	776020.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14915
14919	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14916
14920	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14917
14921	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14918
14922	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14919
14924	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14921
14925	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14922
14926	50-SoCal_Paper (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14923
14927	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14924
14928	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	812729.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14925
14929	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14926
14930	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14927
14931	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14928
14932	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14929
14934	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14931
14935	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14932
14936	50-SoCal_Paper (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14933

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
14937	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14934
14938	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	846910.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14935
14939	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14936
14940	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14937
14941	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14938
14942	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14939
14944	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14941
14945	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14942
14946	50-SoCal_Paper (LowConservative_ECOvens)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14943
14947	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14944
14948	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	878757.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14945
14949	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14946
14950	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14947
14951	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14948
14952	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14949
14954	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14951
14955	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14952
14956	50-SoCal_Paper (LowConservative_ECOvens)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT14953
15097	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15094
15098	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	283751.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15095
15099	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15096
15100	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15097
15101	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15098
15102	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15099
15104	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15101
15105	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15102
15106	51-SoCal_Paper (LowConservative_ICEngines)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15103
15107	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15104
15108	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	337327.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15105
15109	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15106
15110	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15107
15111	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	BSL NG Consumption (MMBtu/yr)	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15108
15112	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15109
15114	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15111
15115	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15112
15116	51-SoCal_Paper (LowConservative_ICEngines)	2031_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15113
15117	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15114
15118	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	PRJ H2 Demand (MMBtu/yr)	387262.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15115
15119	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15116
15120	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15117
15121	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	BSL NG Consumption (MMBtu/yr)	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15118
15122	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15119

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
15124	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15121
15125	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15122
15126	51-SoCal_Paper (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15123
15127	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15124
15128	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	433690.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15125
15129	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15126
15130	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15127
15131	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15128
15132	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15129
15134	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15131
15135	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15132
15136	51-SoCal_Paper (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15133
15137	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15134
15138	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476767.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15135
15139	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15136
15140	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15137
15141	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15138
15142	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15139
15144	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15141
15145	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15142
15146	51-SoCal_Paper (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15143
15147	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15144
15148	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	516672.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15145
15149	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15146
15150	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15147
15151	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15148
15152	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15149
15154	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15151
15155	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15152
15156	51-SoCal_Paper (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15153
15157	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15154
15158	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	553597.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15155
15159	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15156
15160	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15157
15161	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15158
15162	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15159
15164	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15161
15165	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15162
15166	51-SoCal_Paper (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15163
15167	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15164
15168	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	587741.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15165
15169	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15166

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
15170	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15167
15171	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15168
15172	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15169
15174	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15171
15175	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15172
15176	51-SoCal_Paper (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15173
15177	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15174
15178	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	619308.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15175
15179	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15176
15180	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15177
15181	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15178
15182	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15179
15184	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15181
15185	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15182
15186	51-SoCal_Paper (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15183
15187	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15184
15188	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	648497.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15185
15189	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15186
15190	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15187
15191	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15188
15192	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15189
15194	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15191
15195	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15192
15196	51-SoCal_Paper (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15193
15197	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15194
15198	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	694142.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15195
15199	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15196
15200	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15197
15201	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15198
15202	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15199
15204	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15201
15205	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15202
15206	51-SoCal_Paper (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15203
15207	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15204
15208	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	736567.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15205
15209	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15206
15210	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15207
15211	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15208
15212	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15209
15214	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15211
15215	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15212
15216	51-SoCal_Paper (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15213

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
15217	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15214
15218	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	PRJ H2 Demand (MMBtu/yr)	776020.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15215
15219	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15216
15220	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15217
15221	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	BSL NG Consumption (MMBtu/yr)	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15218
15222	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15219
15224	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15221
15225	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15222
15226	51-SoCal_Paper (LowConservative_ICEngines)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15223
15227	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15224
15228	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	812729.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15225
15229	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15226
15230	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15227
15231	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15228
15232	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15229
15234	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15231
15235	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15232
15236	51-SoCal_Paper (LowConservative_ICEngines)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15233
15237	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15234
15238	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	846910.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15235
15239	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15236
15240	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15237
15241	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15238
15242	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15239
15244	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15241
15245	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15242
15246	51-SoCal_Paper (LowConservative_ICEngines)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15243
15247	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15244
15248	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	878757.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15245
15249	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15246
15250	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15247
15251	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15248
15252	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15249
15254	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15251
15255	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15252
15256	51-SoCal_Paper (LowConservative_ICEngines)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15253
15397	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15394
15398	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	283751.86	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15395
15399	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15396
15400	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15397
15401	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15398
15402	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15399

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
15404	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15401
15405	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15402
15406	52-SoCal_Paper (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15403
15407	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15404
15408	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	337327.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15405
15409	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15406
15410	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15407
15411	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15408
15412	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15409
15414	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15411
15415	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15412
15416	52-SoCal_Paper (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15413
15417	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15414
15418	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	387262.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15415
15419	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15416
15420	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15417
15421	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15418
15422	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15419
15424	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15421
15425	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15422
15426	52-SoCal_Paper (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15423
15427	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15424
15428	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	433690.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15425
15429	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15426
15430	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15427
15431	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15428
15432	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15429
15434	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15431
15435	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15432
15436	52-SoCal_Paper (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15433
15437	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15434
15438	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476767.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15435
15439	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15436
15440	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15437
15441	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15438
15442	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15439
15444	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15441
15445	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15442
15446	52-SoCal_Paper (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15443
15447	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15444
15448	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	516672.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15445
15449	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15446

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
15450	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15447
15451	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15448
15452	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15449
15454	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15451
15455	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15452
15456	52-SoCal_Paper (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15453
15457	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15454
15458	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	553597.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15455
15459	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15456
15460	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15457
15461	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15458
15462	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15459
15464	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15461
15465	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15462
15466	52-SoCal_Paper (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15463
15467	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15464
15468	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	587741.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15465
15469	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15466
15470	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15467
15471	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15468
15472	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15469
15474	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15471
15475	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15472
15476	52-SoCal_Paper (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15473
15477	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15474
15478	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	619308.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15475
15479	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15476
15480	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15477
15481	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15478
15482	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15479
15484	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15481
15485	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15482
15486	52-SoCal_Paper (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15483
15487	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15484
15488	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	648497.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15485
15489	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15486
15490	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15487
15491	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15488
15492	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15489
15494	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15491
15495	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15492
15496	52-SoCal_Paper (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15493

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
15497	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15494
15498	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	694142.41	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15495
15499	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15496
15500	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15497
15501	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15498
15502	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15499
15504	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15501
15505	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15502
15506	52-SoCal_Paper (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15503
15507	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15504
15508	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	736567.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15505
15509	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15506
15510	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15507
15511	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15508
15512	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15509
15514	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15511
15515	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15512
15516	52-SoCal_Paper (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15513
15517	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15514
15518	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	776020.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15515
15519	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15516
15520	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15517
15521	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15518
15522	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15519
15524	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15521
15525	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15522
15526	52-SoCal_Paper (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15523
15527	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15524
15528	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	812729.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15525
15529	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15526
15530	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15527
15531	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15528
15532	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15529
15534	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15531
15535	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15532
15536	52-SoCal_Paper (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15533
15537	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15534
15538	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	846910.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15535
15539	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15536
15540	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15537
15541	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15538
15542	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15539

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
15544	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15541
15545	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15542
15546	52-SoCal_Paper (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15543
15547	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15544
15548	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	878757.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15545
15549	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15546
15550	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15547
15551	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15548
15552	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15549
15554	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15551
15555	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15552
15556	52-SoCal_Paper (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15553
15697	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15694
15698	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15695
15699	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15696
15700	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15697
15701	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15698
15702	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15699
15704	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15701
15705	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15702
15706	53-SoCal_Paper (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15703
15707	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15704
15708	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15705
15709	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15706
15710	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15707
15711	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15708
15712	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15709
15714	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15711
15715	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15712
15716	53-SoCal_Paper (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15713
15717	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15714
15718	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15715
15719	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15716
15720	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15717
15721	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15718
15722	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15719
15724	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15721
15725	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15722
15726	53-SoCal_Paper (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15723
15727	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15724
15728	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15725
15729	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15726

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
15730	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15727
15731	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15728
15732	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15729
15734	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15731
15735	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15732
15736	53-SoCal_Paper (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15733
15737	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15734
15738	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15735
15739	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15736
15740	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15737
15741	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15738
15742	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15739
15744	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15741
15745	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15742
15746	53-SoCal_Paper (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15743
15747	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15744
15748	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15745
15749	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15746
15750	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15747
15751	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15748
15752	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15749
15754	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15751
15755	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15752
15756	53-SoCal_Paper (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15753
15757	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15754
15758	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15755
15759	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15756
15760	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15757
15761	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15758
15762	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15759
15764	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15761
15765	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15762
15766	53-SoCal_Paper (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15763
15767	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15764
15768	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15765
15769	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15766
15770	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15767
15771	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15768
15772	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15769
15774	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15771
15775	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15772
15776	53-SoCal_Paper (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15773

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
15777	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15774
15778	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15775
15779	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15776
15780	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15777
15781	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15778
15782	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15779
15784	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15781
15785	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15782
15786	53-SoCal_Paper (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15783
15787	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15784
15788	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15785
15789	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15786
15790	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15787
15791	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15788
15792	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15789
15794	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15791
15795	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15792
15796	53-SoCal_Paper (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15793
15797	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15794
15798	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15795
15799	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15796
15800	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15797
15801	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15798
15802	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15799
15804	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15801
15805	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15802
15806	53-SoCal_Paper (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15803
15807	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15804
15808	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15805
15809	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15806
15810	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15807
15811	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15808
15812	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15809
15814	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15811
15815	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15812
15816	53-SoCal_Paper (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15813
15817	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15814
15818	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15815
15819	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15816
15820	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15817
15821	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15818
15822	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15819

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
15824	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15821
15825	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15822
15826	53-SoCal_Paper (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15823
15827	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15824
15828	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15825
15829	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15826
15830	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15827
15831	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15828
15832	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15829
15834	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15831
15835	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15832
15836	53-SoCal_Paper (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15833
15837	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15834
15838	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15835
15839	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15836
15840	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15837
15841	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15838
15842	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15839
15844	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15841
15845	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15842
15846	53-SoCal_Paper (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15843
15847	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15844
15848	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15845
15849	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15846
15850	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15847
15851	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15848
15852	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15849
15854	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15851
15855	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15852
15856	53-SoCal_Paper (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15853
15997	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15994
15998	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15995
15999	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15996
16000	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15997
16001	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15998
16002	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT15999
16004	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16001
16005	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16002
16006	54-SoCal_Paper (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16003
16007	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16004
16008	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16005
16009	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16006

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
16010	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16007
16011	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16008
16012	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16009
16014	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16011
16015	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16012
16016	54-SoCal_Paper (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16013
16017	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16014
16018	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16015
16019	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16016
16020	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16017
16021	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16018
16022	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16019
16024	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16021
16025	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16022
16026	54-SoCal_Paper (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16023
16027	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16024
16028	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16025
16029	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16026
16030	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16027
16031	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16028
16032	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16029
16034	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16031
16035	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16032
16036	54-SoCal_Paper (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16033
16037	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16034
16038	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16035
16039	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16036
16040	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16037
16041	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16038
16042	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16039
16044	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16041
16045	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16042
16046	54-SoCal_Paper (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16043
16047	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16044
16048	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16045
16049	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16046
16050	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16047
16051	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16048
16052	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16049
16054	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16051
16055	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16052
16056	54-SoCal_Paper (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16053

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
16057	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16054
16058	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16055
16059	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16056
16060	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16057
16061	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16058
16062	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16059
16064	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16061
16065	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16062
16066	54-SoCal_Paper (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16063
16067	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16064
16068	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16065
16069	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16066
16070	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16067
16071	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16068
16072	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16069
16074	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16071
16075	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16072
16076	54-SoCal_Paper (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16073
16077	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16074
16078	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16075
16079	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16076
16080	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16077
16081	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16078
16082	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16079
16084	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16081
16085	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16082
16086	54-SoCal_Paper (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16083
16087	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16084
16088	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16085
16089	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16086
16090	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16087
16091	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16088
16092	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16089
16094	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16091
16095	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16092
16096	54-SoCal_Paper (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16093
16097	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16094
16098	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16095
16099	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16096
16100	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16097
16101	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16098
16102	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16099

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16104	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16101
16105	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16102
16106	54-SoCal_Paper (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16103
16107	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16104
16108	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16105
16109	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16106
16110	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16107
16111	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16108
16112	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16109
16114	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16111
16115	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16112
16116	54-SoCal_Paper (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16113
16117	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16114
16118	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16115
16119	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16116
16120	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16117
16121	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16118
16122	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16119
16124	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16121
16125	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16122
16126	54-SoCal_Paper (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16123
16127	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16124
16128	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16125
16129	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16126
16130	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16127
16131	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16128
16132	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16129
16134	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16131
16135	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16132
16136	54-SoCal_Paper (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16133
16137	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16134
16138	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16135
16139	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16136
16140	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16137
16141	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16138
16142	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16139
16144	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16141
16145	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16142
16146	54-SoCal_Paper (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16143
16147	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16144
16148	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16145
16149	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16146

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16150	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16147
16151	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16148
16152	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16149
16154	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16151
16155	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16152
16156	54-SoCal_Paper (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16153
16297	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16294
16298	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16295
16299	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16296
16300	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16297
16301	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16298
16302	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16299
16304	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16301
16305	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16302
16306	55-SoCal_Paper (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16303
16307	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16304
16308	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16305
16309	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16306
16310	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16307
16311	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16308
16312	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16309
16314	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16311
16315	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16312
16316	55-SoCal_Paper (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16313
16317	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16314
16318	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16315
16319	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16316
16320	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16317
16321	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16318
16322	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16319
16324	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16321
16325	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16322
16326	55-SoCal_Paper (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16323
16327	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16324
16328	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16325
16329	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16326
16330	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16327
16331	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16328
16332	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16329
16334	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16331
16335	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16332
16336	55-SoCal_Paper (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16333

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
16337	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16334
16338	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	PRJ H2 Demand (MMBtu/yr)	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16335
16339	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16336
16340	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16337
16341	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	BSL NG Consumption (MMBtu/yr)	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16338
16342	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16339
16344	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16341
16345	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16342
16346	55-SoCal_Paper (MidModerate_ICEngines)	2034_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16343
16347	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16344
16348	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	PRJ H2 Demand (MMBtu/yr)	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16345
16349	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16346
16350	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16347
16351	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	BSL NG Consumption (MMBtu/yr)	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16348
16352	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16349
16354	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16351
16355	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16352
16356	55-SoCal_Paper (MidModerate_ICEngines)	2035_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16353
16357	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16354
16358	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	PRJ H2 Demand (MMBtu/yr)	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16355
16359	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16356
16360	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16357
16361	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	BSL NG Consumption (MMBtu/yr)	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16358
16362	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16359
16364	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16361
16365	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16362
16366	55-SoCal_Paper (MidModerate_ICEngines)	2036_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16363
16367	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16364
16368	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	PRJ H2 Demand (MMBtu/yr)	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16365
16369	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16366
16370	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16367
16371	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	BSL NG Consumption (MMBtu/yr)	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16368
16372	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16369
16374	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16371
16375	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16372
16376	55-SoCal_Paper (MidModerate_ICEngines)	2037_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16373
16377	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16374
16378	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16375
16379	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16376
16380	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16377
16381	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16378
16382	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16379

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16384	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16381
16385	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16382
16386	55-SoCal_Paper (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16383
16387	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16384
16388	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16385
16389	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16386
16390	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16387
16391	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16388
16392	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16389
16394	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16391
16395	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16392
16396	55-SoCal_Paper (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16393
16397	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16394
16398	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16395
16399	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16396
16400	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16397
16401	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16398
16402	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16399
16404	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16401
16405	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16402
16406	55-SoCal_Paper (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16403
16407	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16404
16408	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16405
16409	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16406
16410	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16407
16411	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16408
16412	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16409
16414	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16411
16415	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16412
16416	55-SoCal_Paper (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16413
16417	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16414
16418	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16415
16419	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16416
16420	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16417
16421	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16418
16422	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16419
16424	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16421
16425	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16422
16426	55-SoCal_Paper (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16423
16427	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16424
16428	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16425
16429	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16426

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
16430	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16427
16431	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16428
16432	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16429
16434	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16431
16435	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16432
16436	55-SoCal_Paper (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16433
16437	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16434
16438	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16435
16439	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16436
16440	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16437
16441	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16438
16442	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16439
16444	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16441
16445	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16442
16446	55-SoCal_Paper (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16443
16447	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16444
16448	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16445
16449	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16446
16450	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16447
16451	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16448
16452	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16449
16454	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16451
16455	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16452
16456	55-SoCal_Paper (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16453
16597	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16594
16598	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16595
16599	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16596
16600	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16597
16601	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16598
16602	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16599
16604	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16601
16605	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16602
16606	56-SoCal_Paper (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16603
16607	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16604
16608	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16605
16609	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16606
16610	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16607
16611	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16608
16612	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16609
16614	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16611
16615	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16612
16616	56-SoCal_Paper (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16613

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16617	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16614
16618	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16615
16619	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16616
16620	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16617
16621	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16618
16622	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16619
16624	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16621
16625	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16622
16626	56-SoCal_Paper (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16623
16627	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16624
16628	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16625
16629	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16626
16630	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16627
16631	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16628
16632	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16629
16634	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16631
16635	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16632
16636	56-SoCal_Paper (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16633
16637	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16634
16638	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16635
16639	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16636
16640	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16637
16641	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16638
16642	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16639
16644	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16641
16645	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16642
16646	56-SoCal_Paper (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16643
16647	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16644
16648	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16645
16649	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16646
16650	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16647
16651	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16648
16652	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16649
16654	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16651
16655	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16652
16656	56-SoCal_Paper (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16653
16657	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16654
16658	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16655
16659	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16656
16660	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16657
16661	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16658
16662	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16659

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
16664	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16661
16665	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16662
16666	56-SoCal_Paper (MidModerate_ICTurbines)	2036_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16663
16667	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16664
16668	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	PRJ H2 Demand (MMBtu/yr)	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16665
16669	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16666
16670	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16667
16671	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	BSL NG Consumption (MMBtu/yr)	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16668
16672	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16669
16674	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16671
16675	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16672
16676	56-SoCal_Paper (MidModerate_ICTurbines)	2037_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16673
16677	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16674
16678	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16675
16679	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16676
16680	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16677
16681	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16678
16682	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16679
16684	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16681
16685	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16682
16686	56-SoCal_Paper (MidModerate_ICTurbines)	2038_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16683
16687	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16684
16688	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	PRJ H2 Demand (MMBtu/yr)	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16685
16689	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16686
16690	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16687
16691	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	BSL NG Consumption (MMBtu/yr)	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16688
16692	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16689
16694	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16691
16695	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16692
16696	56-SoCal_Paper (MidModerate_ICTurbines)	2039_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16693
16697	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16694
16698	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16695
16699	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16696
16700	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16697
16701	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16698
16702	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16699
16704	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16701
16705	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16702
16706	56-SoCal_Paper (MidModerate_ICTurbines)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16703
16707	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16704
16708	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16705
16709	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16706

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16710	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16707
16711	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16708
16712	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16709
16714	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16711
16715	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16712
16716	56-SoCal_Paper (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16713
16717	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16714
16718	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16715
16719	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16716
16720	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16717
16721	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16718
16722	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16719
16724	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16721
16725	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16722
16726	56-SoCal_Paper (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16723
16727	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16724
16728	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16725
16729	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16726
16730	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16727
16731	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16728
16732	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16729
16734	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16731
16735	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16732
16736	56-SoCal_Paper (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16733
16737	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16734
16738	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16735
16739	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16736
16740	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16737
16741	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16738
16742	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16739
16744	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16741
16745	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16742
16746	56-SoCal_Paper (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16743
16747	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16744
16748	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16745
16749	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16746
16750	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16747
16751	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16748
16752	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16749
16754	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16751
16755	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16752
16756	56-SoCal_Paper (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16753

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
16897	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16894
16898	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16895
16899	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16896
16900	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16897
16901	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16898
16902	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16899
16904	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16901
16905	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16902
16906	57-SoCal_Paper (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16903
16907	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16904
16908	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16905
16909	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16906
16910	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16907
16911	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16908
16912	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16909
16914	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16911
16915	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16912
16916	57-SoCal_Paper (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16913
16917	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16914
16918	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16915
16919	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16916
16920	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16917
16921	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16918
16922	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16919
16924	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16921
16925	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16922
16926	57-SoCal_Paper (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16923
16927	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16924
16928	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16925
16929	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16926
16930	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16927
16931	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16928
16932	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16929
16934	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16931
16935	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16932
16936	57-SoCal_Paper (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16933
16937	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16934
16938	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16935
16939	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16936
16940	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16937
16941	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16938
16942	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16939

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16944	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16941
16945	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16942
16946	57-SoCal_Paper (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16943
16947	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16944
16948	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16945
16949	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16946
16950	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16947
16951	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16948
16952	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16949
16954	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16951
16955	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16952
16956	57-SoCal_Paper (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16953
16957	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16954
16958	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16955
16959	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16956
16960	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16957
16961	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16958
16962	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16959
16964	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16961
16965	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16962
16966	57-SoCal_Paper (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16963
16967	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16964
16968	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16965
16969	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16966
16970	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16967
16971	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16968
16972	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16969
16974	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16971
16975	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16972
16976	57-SoCal_Paper (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16973
16977	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16974
16978	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16975
16979	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16976
16980	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16977
16981	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16978
16982	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16979
16984	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16981
16985	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16982
16986	57-SoCal_Paper (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16983
16987	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16984
16988	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16985
16989	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16986

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
16990	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16987
16991	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16988
16992	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16989
16994	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16991
16995	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16992
16996	57-SoCal_Paper (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16993
16997	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16994
16998	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16995
16999	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16996
17000	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16997
17001	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16998
17002	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT16999
17004	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17001
17005	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17002
17006	57-SoCal_Paper (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17003
17007	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17004
17008	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17005
17009	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17006
17010	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17007
17011	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17008
17012	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17009
17014	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17011
17015	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17012
17016	57-SoCal_Paper (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17013
17017	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17014
17018	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17015
17019	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17016
17020	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17017
17021	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17018
17022	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17019
17024	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17021
17025	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17022
17026	57-SoCal_Paper (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17023
17027	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17024
17028	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17025
17029	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17026
17030	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17027
17031	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17028
17032	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17029
17034	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17031
17035	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17032
17036	57-SoCal_Paper (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17033

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
17037	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17034
17038	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17035
17039	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17036
17040	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17037
17041	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17038
17042	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17039
17044	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17041
17045	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17042
17046	57-SoCal_Paper (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17043
17047	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17044
17048	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17045
17049	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17046
17050	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17047
17051	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17048
17052	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17049
17054	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17051
17055	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17052
17056	57-SoCal_Paper (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17053
17197	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17194
17198	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17195
17199	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17196
17200	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17197
17201	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17198
17202	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17199
17204	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17201
17205	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17202
17206	58-SoCal_Paper (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17203
17207	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17204
17208	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17205
17209	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17206
17210	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17207
17211	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17208
17212	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17209
17214	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17211
17215	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17212
17216	58-SoCal_Paper (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17213
17217	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17214
17218	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17215
17219	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17216
17220	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17217
17221	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17218
17222	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17219

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
17224	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17221
17225	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17222
17226	58-SoCal_Paper (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17223
17227	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17224
17228	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17225
17229	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17226
17230	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17227
17231	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17228
17232	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17229
17234	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17231
17235	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17232
17236	58-SoCal_Paper (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17233
17237	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17234
17238	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17235
17239	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17236
17240	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17237
17241	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17238
17242	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17239
17244	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17241
17245	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17242
17246	58-SoCal_Paper (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17243
17247	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17244
17248	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17245
17249	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17246
17250	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17247
17251	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17248
17252	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17249
17254	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17251
17255	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17252
17256	58-SoCal_Paper (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17253
17257	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17254
17258	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17255
17259	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17256
17260	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17257
17261	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17258
17262	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17259
17264	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17261
17265	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17262
17266	58-SoCal_Paper (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17263
17267	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17264
17268	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17265
17269	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17266

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17270	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17267
17271	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17268
17272	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17269
17274	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17271
17275	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17272
17276	58-SoCal_Paper (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17273
17277	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17274
17278	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17275
17279	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17276
17280	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17277
17281	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17278
17282	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17279
17284	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17281
17285	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17282
17286	58-SoCal_Paper (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17283
17287	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17284
17288	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17285
17289	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17286
17290	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17287
17291	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17288
17292	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17289
17294	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17291
17295	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17292
17296	58-SoCal_Paper (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17293
17297	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17294
17298	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17295
17299	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17296
17300	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17297
17301	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17298
17302	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17299
17304	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17301
17305	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17302
17306	58-SoCal_Paper (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17303
17307	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17304
17308	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17305
17309	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17306
17310	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17307
17311	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17308
17312	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17309
17314	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17311
17315	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17312
17316	58-SoCal_Paper (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17313

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17317	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17314
17318	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17315
17319	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17316
17320	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17317
17321	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17318
17322	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17319
17324	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17321
17325	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17322
17326	58-SoCal_Paper (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17323
17327	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17324
17328	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17325
17329	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17326
17330	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17327
17331	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17328
17332	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17329
17334	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17331
17335	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17332
17336	58-SoCal_Paper (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17333
17337	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17334
17338	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17335
17339	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17336
17340	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17337
17341	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17338
17342	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17339
17344	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17341
17345	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17342
17346	58-SoCal_Paper (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17343
17347	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17344
17348	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17345
17349	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17346
17350	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17347
17351	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17348
17352	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17349
17354	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17351
17355	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17352
17356	58-SoCal_Paper (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17353
17497	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17494
17498	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17495
17499	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17496
17500	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17497
17501	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17498
17502	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17499

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17504	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17501
17505	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17502
17506	59-SoCal_Paper (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17503
17507	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17504
17508	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17505
17509	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17506
17510	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17507
17511	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17508
17512	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17509
17514	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17511
17515	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17512
17516	59-SoCal_Paper (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17513
17517	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17514
17518	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17515
17519	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17516
17520	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17517
17521	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17518
17522	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17519
17524	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17521
17525	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17522
17526	59-SoCal_Paper (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17523
17527	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17524
17528	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17525
17529	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17526
17530	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17527
17531	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17528
17532	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17529
17534	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17531
17535	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17532
17536	59-SoCal_Paper (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17533
17537	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17534
17538	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17535
17539	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17536
17540	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17537
17541	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17538
17542	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17539
17544	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17541
17545	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17542
17546	59-SoCal_Paper (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17543
17547	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17544
17548	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17545
17549	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17546

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17550	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17547
17551	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17548
17552	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17549
17554	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17551
17555	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17552
17556	59-SoCal_Paper (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17553
17557	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17554
17558	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17555
17559	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17556
17560	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17557
17561	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17558
17562	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17559
17564	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17561
17565	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17562
17566	59-SoCal_Paper (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17563
17567	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17564
17568	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17565
17569	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17566
17570	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17567
17571	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17568
17572	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17569
17574	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17571
17575	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17572
17576	59-SoCal_Paper (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17573
17577	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17574
17578	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17575
17579	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17576
17580	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17577
17581	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17578
17582	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17579
17584	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17581
17585	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17582
17586	59-SoCal_Paper (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17583
17587	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17584
17588	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17585
17589	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17586
17590	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17587
17591	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17588
17592	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17589
17594	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17591
17595	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17592
17596	59-SoCal_Paper (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17593

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17597	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17594
17598	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17595
17599	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17596
17600	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17597
17601	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17598
17602	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17599
17604	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17601
17605	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17602
17606	59-SoCal_Paper (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17603
17607	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17604
17608	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17605
17609	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17606
17610	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17607
17611	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17608
17612	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17609
17614	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17611
17615	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17612
17616	59-SoCal_Paper (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17613
17617	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17614
17618	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17615
17619	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17616
17620	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17617
17621	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17618
17622	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17619
17624	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17621
17625	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17622
17626	59-SoCal_Paper (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17623
17627	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17624
17628	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17625
17629	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17626
17630	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17627
17631	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17628
17632	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17629
17634	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17631
17635	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17632
17636	59-SoCal_Paper (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17633
17637	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17634
17638	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17635
17639	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17636
17640	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17637
17641	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17638
17642	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17639

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17644	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17641
17645	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17642
17646	59-SoCal_Paper (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17643
17647	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17644
17648	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17645
17649	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17646
17650	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17647
17651	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17648
17652	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17649
17654	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17651
17655	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17652
17656	59-SoCal_Paper (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17653
17797	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17794
17798	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	319172.88	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17795
17799	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17796
17800	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17797
17801	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5468183.43	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17798
17802	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17799
17804	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17801
17805	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17802
17806	60-SoCal_Paper (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17803
17807	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17804
17808	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	386799.60	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17805
17809	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17806
17810	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17807
17811	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5542857.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17808
17812	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17809
17814	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17811
17815	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17812
17816	60-SoCal_Paper (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17813
17817	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17814
17818	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	451638.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17815
17819	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17816
17820	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17817
17821	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5602424.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17818
17822	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17819
17824	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17821
17825	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17822
17826	60-SoCal_Paper (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17823
17827	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17824
17828	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	514805.51	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17825
17829	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17826

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
17830	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17827
17831	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5663959.19	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17828
17832	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17829
17834	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17831
17835	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17832
17836	60-SoCal_Paper (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17833
17837	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17834
17838	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	576101.10	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17835
17839	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17836
17840	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17837
17841	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5724327.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17838
17842	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17839
17844	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17841
17845	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17842
17846	60-SoCal_Paper (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17843
17847	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17844
17848	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	635245.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17845
17849	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17846
17850	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17847
17851	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5780786.91	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17848
17852	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17849
17854	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17851
17855	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17852
17856	60-SoCal_Paper (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17853
17857	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17854
17858	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	691645.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17855
17859	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17856
17860	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17857
17861	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5828721.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17858
17862	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17859
17864	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17861
17865	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17862
17866	60-SoCal_Paper (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17863
17867	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17864
17868	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	746324.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17865
17869	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17866
17870	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17867
17871	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5877382.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17868
17872	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17869
17874	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17871
17875	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17872
17876	60-SoCal_Paper (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17873

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
17877	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17874
17878	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	798951.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17875
17879	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17876
17880	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17877
17881	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5923642.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17878
17882	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17879
17884	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17881
17885	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17882
17886	60-SoCal_Paper (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17883
17887	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17884
17888	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	850947.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17885
17889	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17886
17890	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17887
17891	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	5977376.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17888
17892	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17889
17894	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17891
17895	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17892
17896	60-SoCal_Paper (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17893
17897	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17894
17898	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	923557.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17895
17899	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17896
17900	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17897
17901	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6013235.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17898
17902	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17899
17904	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17901
17905	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17902
17906	60-SoCal_Paper (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17903
17907	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17904
17908	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	994158.12	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17905
17909	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17906
17910	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17907
17911	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6052998.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17908
17912	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17909
17914	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17911
17915	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17912
17916	60-SoCal_Paper (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17913
17917	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17914
17918	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1064760.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17915
17919	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17916
17920	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17917
17921	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6106848.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17918
17922	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17919

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
17924	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17921
17925	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17922
17926	60-SoCal_Paper (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17923
17927	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17924
17928	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1131862.80	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17925
17929	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17926
17930	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17927
17931	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6152972.47	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17928
17932	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17929
17934	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17931
17935	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17932
17936	60-SoCal_Paper (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17933
17937	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17934
17938	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1197306.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17935
17939	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17936
17940	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17937
17941	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6201573.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17938
17942	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17939
17944	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17941
17945	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17942
17946	60-SoCal_Paper (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17943
17947	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17944
17948	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	1260536.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17945
17949	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17946
17950	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17947
17951	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	6249147.82	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17948
17952	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17949
17954	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17951
17955	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17952
17956	60-SoCal_Paper (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT17953
18097	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18094
18098	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	126071.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18095
18099	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18096
18100	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18097
18101	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18098
18102	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18099
18104	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18101
18105	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18102
18106	61-SoCal_Chemicals (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18103
18107	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18104
18108	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	150937.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18105
18109	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18106

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18110	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18107
18111	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18108
18112	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18109
18114	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18111
18115	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18112
18116	61-SoCal_Chemicals (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18113
18117	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18114
18118	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	174219.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18115
18119	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18116
18120	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18117
18121	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18118
18122	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18119
18124	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18121
18125	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18122
18126	61-SoCal_Chemicals (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18123
18127	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18124
18128	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	195981.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18125
18129	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18126
18130	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18127
18131	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18128
18132	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18129
18134	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18131
18135	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18132
18136	61-SoCal_Chemicals (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18133
18137	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18134
18138	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	216293.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18135
18139	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18136
18140	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18137
18141	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18138
18142	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18139
18144	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18141
18145	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18142
18146	61-SoCal_Chemicals (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18143
18147	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18144
18148	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	235230.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18145
18149	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18146
18150	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18147
18151	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18148
18152	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18149
18154	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18151
18155	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18152
18156	61-SoCal_Chemicals (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18153

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
18157	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18154
18158	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	252874.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18155
18159	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18156
18160	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18157
18161	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18158
18162	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18159
18164	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18161
18165	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18162
18166	61-SoCal_Chemicals (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18163
18167	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18164
18168	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	269308.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18165
18169	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18166
18170	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18167
18171	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18168
18172	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18169
18174	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18171
18175	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18172
18176	61-SoCal_Chemicals (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18173
18177	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18174
18178	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	284614.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18175
18179	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18176
18180	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18177
18181	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18178
18182	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18179
18184	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18181
18185	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18182
18186	61-SoCal_Chemicals (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18183
18187	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18184
18188	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	298874.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18185
18189	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18186
18190	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18187
18191	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18188
18192	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18189
18194	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18191
18195	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18192
18196	61-SoCal_Chemicals (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18193
18197	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18194
18198	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	321598.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18195
18199	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18196
18200	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18197
18201	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18198
18202	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18199

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18204	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18201
18205	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18202
18206	61-SoCal_Chemicals (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18203
18207	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18204
18208	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	342856.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18205
18209	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18206
18210	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18207
18211	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18208
18212	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18209
18214	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18211
18215	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18212
18216	61-SoCal_Chemicals (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18213
18217	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18214
18218	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	362752.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18215
18219	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18216
18220	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18217
18221	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18218
18222	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18219
18224	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18221
18225	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18222
18226	61-SoCal_Chemicals (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18223
18227	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18224
18228	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	381383.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18225
18229	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18226
18230	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18227
18231	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18228
18232	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18229
18234	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18231
18235	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18232
18236	61-SoCal_Chemicals (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18233
18237	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18234
18238	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	398839.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18235
18239	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18236
18240	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18237
18241	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18238
18242	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18239
18244	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18241
18245	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18242
18246	61-SoCal_Chemicals (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18243
18247	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18244
18248	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	415203.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18245
18249	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18246

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18250	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18247
18251	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18248
18252	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18249
18254	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18251
18255	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18252
18256	61-SoCal_Chemicals (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18253
18397	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18394
18398	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	126071.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18395
18399	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18396
18400	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18397
18401	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18398
18402	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18399
18404	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18401
18405	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18402
18406	62-SoCal_Chemicals (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18403
18407	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18404
18408	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	150937.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18405
18409	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18406
18410	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18407
18411	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18408
18412	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18409
18414	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18411
18415	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18412
18416	62-SoCal_Chemicals (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18413
18417	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18414
18418	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	174219.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18415
18419	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18416
18420	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18417
18421	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18418
18422	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18419
18424	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18421
18425	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18422
18426	62-SoCal_Chemicals (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18423
18427	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18424
18428	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	195981.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18425
18429	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18426
18430	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18427
18431	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18428
18432	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18429
18434	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18431
18435	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18432
18436	62-SoCal_Chemicals (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18433

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18437	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18434
18438	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	216293.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18435
18439	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18436
18440	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18437
18441	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18438
18442	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18439
18444	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18441
18445	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18442
18446	62-SoCal_Chemicals (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18443
18447	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18444
18448	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	235230.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18445
18449	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18446
18450	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18447
18451	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18448
18452	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18449
18454	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18451
18455	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18452
18456	62-SoCal_Chemicals (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18453
18457	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18454
18458	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	252874.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18455
18459	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18456
18460	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18457
18461	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18458
18462	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18459
18464	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18461
18465	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18462
18466	62-SoCal_Chemicals (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18463
18467	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18464
18468	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	269308.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18465
18469	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18466
18470	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18467
18471	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18468
18472	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18469
18474	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18471
18475	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18472
18476	62-SoCal_Chemicals (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18473
18477	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18474
18478	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	284614.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18475
18479	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18476
18480	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18477
18481	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18478
18482	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18479

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	**Fuel Type**	**Parameter**	**Value**	**Reference**
18484	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18481
18485	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18482
18486	62-SoCal_Chemicals (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18483
18487	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18484
18488	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	298874.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18485
18489	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18486
18490	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18487
18491	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18488
18492	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18489
18494	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18491
18495	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18492
18496	62-SoCal_Chemicals (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18493
18497	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18494
18498	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	321598.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18495
18499	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18496
18500	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18497
18501	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18498
18502	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18499
18504	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18501
18505	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18502
18506	62-SoCal_Chemicals (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18503
18507	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18504
18508	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	342856.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18505
18509	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18506
18510	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18507
18511	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18508
18512	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18509
18514	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18511
18515	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18512
18516	62-SoCal_Chemicals (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18513
18517	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18514
18518	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	362752.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18515
18519	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18516
18520	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18517
18521	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18518
18522	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18519
18524	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18521
18525	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18522
18526	62-SoCal_Chemicals (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18523
18527	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18524
18528	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	381383.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18525
18529	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18526

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18530	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18527
18531	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18528
18532	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18529
18534	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18531
18535	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18532
18536	62-SoCal_Chemicals (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18533
18537	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18534
18538	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	398839.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18535
18539	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18536
18540	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18537
18541	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18538
18542	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18539
18544	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18541
18545	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18542
18546	62-SoCal_Chemicals (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18543
18547	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18544
18548	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	415203.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18545
18549	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18546
18550	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18547
18551	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18548
18552	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18549
18554	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18551
18555	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18552
18556	62-SoCal_Chemicals (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18553
18697	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18694
18698	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	126071.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18695
18699	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18696
18700	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18697
18701	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18698
18702	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18699
18704	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18701
18705	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18702
18706	63-SoCal_Chemicals (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18703
18707	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18704
18708	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	150937.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18705
18709	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18706
18710	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18707
18711	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18708
18712	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18709
18714	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18711
18715	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18712
18716	63-SoCal_Chemicals (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18713

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18717	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18714
18718	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	174219.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18715
18719	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18716
18720	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18717
18721	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18718
18722	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18719
18724	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18721
18725	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18722
18726	63-SoCal_Chemicals (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18723
18727	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18724
18728	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	195981.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18725
18729	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18726
18730	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18727
18731	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18728
18732	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18729
18734	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18731
18735	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18732
18736	63-SoCal_Chemicals (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18733
18737	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18734
18738	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	216293.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18735
18739	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18736
18740	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18737
18741	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18738
18742	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18739
18744	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18741
18745	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18742
18746	63-SoCal_Chemicals (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18743
18747	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18744
18748	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	235230.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18745
18749	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18746
18750	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18747
18751	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18748
18752	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18749
18754	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18751
18755	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18752
18756	63-SoCal_Chemicals (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18753
18757	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18754
18758	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	252874.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18755
18759	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18756
18760	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18757
18761	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18758
18762	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18759

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
18764	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18761
18765	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18762
18766	63-SoCal_Chemicals (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18763
18767	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18764
18768	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	269308.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18765
18769	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18766
18770	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18767
18771	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18768
18772	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18769
18774	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18771
18775	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18772
18776	63-SoCal_Chemicals (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18773
18777	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18774
18778	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	284614.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18775
18779	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18776
18780	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18777
18781	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18778
18782	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18779
18784	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18781
18785	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18782
18786	63-SoCal_Chemicals (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18783
18787	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18784
18788	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	298874.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18785
18789	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18786
18790	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18787
18791	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18788
18792	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18789
18794	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18791
18795	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18792
18796	63-SoCal_Chemicals (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18793
18797	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18794
18798	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	321598.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18795
18799	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18796
18800	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18797
18801	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18798
18802	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18799
18804	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18801
18805	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18802
18806	63-SoCal_Chemicals (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18803
18807	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18804
18808	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	342856.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18805
18809	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18806

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
18810	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18807
18811	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18808
18812	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18809
18814	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18811
18815	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18812
18816	63-SoCal_Chemicals (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18813
18817	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18814
18818	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	362752.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18815
18819	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18816
18820	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18817
18821	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18818
18822	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18819
18824	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18821
18825	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18822
18826	63-SoCal_Chemicals (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18823
18827	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18824
18828	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	381383.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18825
18829	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18826
18830	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18827
18831	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18828
18832	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18829
18834	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18831
18835	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18832
18836	63-SoCal_Chemicals (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18833
18837	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18834
18838	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	398839.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18835
18839	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18836
18840	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18837
18841	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18838
18842	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18839
18844	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18841
18845	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18842
18846	63-SoCal_Chemicals (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18843
18847	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18844
18848	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	415203.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18845
18849	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18846
18850	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18847
18851	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18848
18852	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18849
18854	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18851
18855	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18852
18856	63-SoCal_Chemicals (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18853

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
18997	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18994
18998	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	126071.90	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18995
18999	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18996
19000	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18997
19001	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18998
19002	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT18999
19004	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19001
19005	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19002
19006	64-SoCal_Chemicals (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19003
19007	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19004
19008	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	150937.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19005
19009	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19006
19010	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19007
19011	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19008
19012	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19009
19014	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19011
19015	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19012
19016	64-SoCal_Chemicals (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19013
19017	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19014
19018	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	174219.36	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19015
19019	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19016
19020	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19017
19021	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19018
19022	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19019
19024	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19021
19025	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19022
19026	64-SoCal_Chemicals (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19023
19027	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19024
19028	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	195981.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19025
19029	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19026
19030	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19027
19031	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19028
19032	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19029
19034	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19031
19035	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19032
19036	64-SoCal_Chemicals (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19033
19037	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19034
19038	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	216293.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19035
19039	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19036
19040	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19037
19041	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19038
19042	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19039

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
19044	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19041
19045	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19042
19046	64-SoCal_Chemicals (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19043
19047	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19044
19048	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	235230.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19045
19049	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19046
19050	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19047
19051	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19048
19052	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19049
19054	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19051
19055	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19052
19056	64-SoCal_Chemicals (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19053
19057	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19054
19058	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	252874.62	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19055
19059	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19056
19060	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19057
19061	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19058
19062	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19059
19064	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19061
19065	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19062
19066	64-SoCal_Chemicals (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19063
19067	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19064
19068	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	269308.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19065
19069	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19066
19070	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19067
19071	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19068
19072	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19069
19074	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19071
19075	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19072
19076	64-SoCal_Chemicals (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19073
19077	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19074
19078	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	284614.31	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19075
19079	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19076
19080	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19077
19081	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19078
19082	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19079
19084	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19081
19085	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19082
19086	64-SoCal_Chemicals (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19083
19087	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19084
19088	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	298874.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19085
19089	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19086

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
19090	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19087
19091	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19088
19092	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19089
19094	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19091
19095	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19092
19096	64-SoCal_Chemicals (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19093
19097	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19094
19098	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	321598.04	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19095
19099	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19096
19100	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19097
19101	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19098
19102	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19099
19104	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19101
19105	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19102
19106	64-SoCal_Chemicals (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19103
19107	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19104
19108	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	342856.14	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19105
19109	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19106
19110	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19107
19111	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19108
19112	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19109
19114	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19111
19115	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19112
19116	64-SoCal_Chemicals (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19113
19117	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19114
19118	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	362752.30	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19115
19119	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19116
19120	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19117
19121	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19118
19122	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19119
19124	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19121
19125	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19122
19126	64-SoCal_Chemicals (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19123
19127	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19124
19128	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	381383.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19125
19129	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19126
19130	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19127
19131	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19128
19132	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19129
19134	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19131
19135	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19132
19136	64-SoCal_Chemicals (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19133

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
19137	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19134
19138	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	398839.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19135
19139	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19136
19140	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19137
19141	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19138
19142	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19139
19144	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19141
19145	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19142
19146	64-SoCal_Chemicals (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19143
19147	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19144
19148	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	415203.98	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19145
19149	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19146
19150	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19147
19151	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19148
19152	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19149
19154	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19151
19155	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19152
19156	64-SoCal_Chemicals (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19153
19297	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19294
19298	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19295
19299	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19296
19300	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19297
19301	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19298
19302	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19299
19304	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19301
19305	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19302
19306	65-SoCal_Chemicals (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19303
19307	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19304
19308	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19305
19309	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19306
19310	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19307
19311	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19308
19312	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19309
19314	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19311
19315	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19312
19316	65-SoCal_Chemicals (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19313
19317	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19314
19318	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19315
19319	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19316
19320	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19317
19321	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19318
19322	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19319

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
19324	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19321
19325	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19322
19326	65-SoCal_Chemicals (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19323
19327	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19324
19328	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19325
19329	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19326
19330	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19327
19331	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19328
19332	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19329
19334	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19331
19335	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19332
19336	65-SoCal_Chemicals (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19333
19337	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19334
19338	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19335
19339	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19336
19340	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19337
19341	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19338
19342	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19339
19344	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19341
19345	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19342
19346	65-SoCal_Chemicals (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19343
19347	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19344
19348	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19345
19349	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19346
19350	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19347
19351	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19348
19352	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19349
19354	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19351
19355	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19352
19356	65-SoCal_Chemicals (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19353
19357	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19354
19358	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19355
19359	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19356
19360	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19357
19361	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19358
19362	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19359
19364	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19361
19365	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19362
19366	65-SoCal_Chemicals (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19363
19367	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19364
19368	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19365
19369	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19366

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
19370	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19367
19371	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19368
19372	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19369
19374	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19371
19375	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19372
19376	65-SoCal_Chemicals (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19373
19377	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19374
19378	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19375
19379	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19376
19380	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19377
19381	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19378
19382	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19379
19384	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19381
19385	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19382
19386	65-SoCal_Chemicals (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19383
19387	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19384
19388	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19385
19389	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19386
19390	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19387
19391	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19388
19392	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19389
19394	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19391
19395	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19392
19396	65-SoCal_Chemicals (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19393
19397	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19394
19398	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19395
19399	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19396
19400	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19397
19401	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19398
19402	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19399
19404	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19401
19405	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19402
19406	65-SoCal_Chemicals (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19403
19407	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19404
19408	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19405
19409	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19406
19410	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19407
19411	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19408
19412	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19409
19414	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19411
19415	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19412
19416	65-SoCal_Chemicals (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19413

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
19417	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19414
19418	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19415
19419	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19416
19420	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19417
19421	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19418
19422	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19419
19424	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19421
19425	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19422
19426	65-SoCal_Chemicals (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19423
19427	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19424
19428	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19425
19429	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19426
19430	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19427
19431	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19428
19432	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19429
19434	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19431
19435	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19432
19436	65-SoCal_Chemicals (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19433
19437	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19434
19438	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19435
19439	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19436
19440	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19437
19441	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19438
19442	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19439
19444	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19441
19445	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19442
19446	65-SoCal_Chemicals (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19443
19447	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19444
19448	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19445
19449	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19446
19450	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19447
19451	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19448
19452	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19449
19454	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19451
19455	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19452
19456	65-SoCal_Chemicals (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19453
19597	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19594
19598	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19595
19599	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19596
19600	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19597
19601	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19598
19602	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19599

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
19604	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19601
19605	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19602
19606	66-SoCal_Chemicals (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19603
19607	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19604
19608	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19605
19609	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19606
19610	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19607
19611	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19608
19612	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19609
19614	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19611
19615	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19612
19616	66-SoCal_Chemicals (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19613
19617	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19614
19618	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19615
19619	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19616
19620	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19617
19621	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19618
19622	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19619
19624	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19621
19625	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19622
19626	66-SoCal_Chemicals (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19623
19627	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19624
19628	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19625
19629	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19626
19630	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19627
19631	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19628
19632	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19629
19634	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19631
19635	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19632
19636	66-SoCal_Chemicals (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19633
19637	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19634
19638	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19635
19639	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19636
19640	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19637
19641	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19638
19642	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19639
19644	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19641
19645	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19642
19646	66-SoCal_Chemicals (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19643
19647	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19644
19648	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19645
19649	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19646

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	Value	Reference
19650	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19647
19651	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19648
19652	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19649
19654	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19651
19655	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19652
19656	66-SoCal_Chemicals (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19653
19657	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19654
19658	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19655
19659	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19656
19660	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19657
19661	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19658
19662	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19659
19664	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19661
19665	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19662
19666	66-SoCal_Chemicals (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19663
19667	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19664
19668	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19665
19669	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19666
19670	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19667
19671	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19668
19672	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19669
19674	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19671
19675	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19672
19676	66-SoCal_Chemicals (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19673
19677	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19674
19678	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19675
19679	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19676
19680	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19677
19681	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19678
19682	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19679
19684	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19681
19685	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19682
19686	66-SoCal_Chemicals (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19683
19687	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19684
19688	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19685
19689	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19686
19690	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19687
19691	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19688
19692	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19689
19694	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19691
19695	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19692
19696	66-SoCal_Chemicals (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19693

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
19697	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19694
19698	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19695
19699	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19696
19700	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19697
19701	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19698
19702	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19699
19704	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19701
19705	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19702
19706	66-SoCal_Chemicals (MidModerate_ECOvens)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19703
19707	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19704
19708	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19705
19709	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19706
19710	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19707
19711	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	BSL NG Consumption (MMBtu/yr)	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19708
19712	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19709
19714	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19711
19715	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19712
19716	66-SoCal_Chemicals (MidModerate_ECOvens)	2041_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19713
19717	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19714
19718	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	PRJ H2 Demand (MMBtu/yr)	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19715
19719	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19716
19720	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19717
19721	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	BSL NG Consumption (MMBtu/yr)	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19718
19722	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19719
19724	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19721
19725	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19722
19726	66-SoCal_Chemicals (MidModerate_ECOvens)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19723
19727	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19724
19728	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19725
19729	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19726
19730	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19727
19731	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19728
19732	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19729
19734	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19731
19735	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19732
19736	66-SoCal_Chemicals (MidModerate_ECOvens)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19733
19737	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19734
19738	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19735
19739	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19736
19740	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19737
19741	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19738
19742	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19739

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
19744	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19741
19745	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19742
19746	66-SoCal_Chemicals (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19743
19747	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19744
19748	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19745
19749	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19746
19750	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19747
19751	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19748
19752	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19749
19754	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19751
19755	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19752
19756	66-SoCal_Chemicals (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19753
19897	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19894
19898	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19895
19899	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19896
19900	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19897
19901	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19898
19902	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19899
19904	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19901
19905	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19902
19906	67-SoCal_Chemicals (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19903
19907	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19904
19908	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19905
19909	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19906
19910	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19907
19911	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19908
19912	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19909
19914	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19911
19915	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19912
19916	67-SoCal_Chemicals (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19913
19917	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19914
19918	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19915
19919	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19916
19920	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19917
19921	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19918
19922	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19919
19924	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19921
19925	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19922
19926	67-SoCal_Chemicals (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19923
19927	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19924
19928	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19925
19929	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19926

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
19930	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19927
19931	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19928
19932	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19929
19934	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19931
19935	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19932
19936	67-SoCal_Chemicals (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19933
19937	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19934
19938	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19935
19939	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19936
19940	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19937
19941	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19938
19942	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19939
19944	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19941
19945	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19942
19946	67-SoCal_Chemicals (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19943
19947	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19944
19948	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19945
19949	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19946
19950	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19947
19951	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19948
19952	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19949
19954	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19951
19955	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19952
19956	67-SoCal_Chemicals (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19953
19957	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19954
19958	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19955
19959	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19956
19960	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19957
19961	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19958
19962	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19959
19964	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19961
19965	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19962
19966	67-SoCal_Chemicals (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19963
19967	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19964
19968	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19965
19969	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19966
19970	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19967
19971	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19968
19972	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19969
19974	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19971
19975	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19972
19976	67-SoCal_Chemicals (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19973

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
19977	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19974
19978	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19975
19979	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19976
19980	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19977
19981	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19978
19982	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19979
19984	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19981
19985	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19982
19986	67-SoCal_Chemicals (MidModerate_ICEngines)	2038_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19983
19987	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19984
19988	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	PRJ H2 Demand (MMBtu/yr)	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19985
19989	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19986
19990	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19987
19991	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	BSL NG Consumption (MMBtu/yr)	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19988
19992	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19989
19994	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19991
19995	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19992
19996	67-SoCal_Chemicals (MidModerate_ICEngines)	2039_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19993
19997	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19994
19998	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19995
19999	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19996
20000	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19997
20001	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19998
20002	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT19999
20004	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20001
20005	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20002
20006	67-SoCal_Chemicals (MidModerate_ICEngines)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20003
20007	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20004
20008	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20005
20009	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20006
20010	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20007
20011	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	BSL NG Consumption (MMBtu/yr)	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20008
20012	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20009
20014	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20011
20015	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20012
20016	67-SoCal_Chemicals (MidModerate_ICEngines)	2041_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20013
20017	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20014
20018	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	PRJ H2 Demand (MMBtu/yr)	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20015
20019	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20016
20020	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	Blend % H2 (scf/100-scf)	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20017
20021	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	BSL NG Consumption (MMBtu/yr)	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20018
20022	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20019

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
20024	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20021
20025	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20022
20026	67-SoCal_Chemicals (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20023
20027	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20024
20028	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20025
20029	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20026
20030	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20027
20031	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20028
20032	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20029
20034	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20031
20035	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20032
20036	67-SoCal_Chemicals (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20033
20037	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20034
20038	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20035
20039	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20036
20040	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20037
20041	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20038
20042	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20039
20044	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20041
20045	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20042
20046	67-SoCal_Chemicals (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20043
20047	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20044
20048	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20045
20049	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20046
20050	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20047
20051	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20048
20052	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20049
20054	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20051
20055	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20052
20056	67-SoCal_Chemicals (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20053
20197	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20194
20198	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20195
20199	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20196
20200	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20197
20201	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20198
20202	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20199
20204	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20201
20205	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20202
20206	68-SoCal_Chemicals (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20203
20207	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20204
20208	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20205
20209	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20206

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
20210	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20207
20211	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20208
20212	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20209
20214	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20211
20215	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20212
20216	68-SoCal_Chemicals (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20213
20217	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20214
20218	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20215
20219	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20216
20220	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20217
20221	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20218
20222	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20219
20224	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20221
20225	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20222
20226	68-SoCal_Chemicals (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20223
20227	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20224
20228	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20225
20229	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20226
20230	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20227
20231	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20228
20232	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20229
20234	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20231
20235	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20232
20236	68-SoCal_Chemicals (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20233
20237	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20234
20238	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20235
20239	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20236
20240	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20237
20241	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20238
20242	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20239
20244	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20241
20245	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20242
20246	68-SoCal_Chemicals (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20243
20247	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20244
20248	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20245
20249	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20246
20250	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20247
20251	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20248
20252	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20249
20254	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20251
20255	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20252
20256	68-SoCal_Chemicals (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20253

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
20257	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20254
20258	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20255
20259	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20256
20260	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20257
20261	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20258
20262	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20259
20264	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20261
20265	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20262
20266	68-SoCal_Chemicals (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20263
20267	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20264
20268	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20265
20269	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20266
20270	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20267
20271	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20268
20272	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20269
20274	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20271
20275	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20272
20276	68-SoCal_Chemicals (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20273
20277	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20274
20278	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20275
20279	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20276
20280	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20277
20281	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20278
20282	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20279
20284	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20281
20285	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20282
20286	68-SoCal_Chemicals (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20283
20287	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20284
20288	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20285
20289	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20286
20290	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20287
20291	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20288
20292	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20289
20294	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20291
20295	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20292
20296	68-SoCal_Chemicals (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20293
20297	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20294
20298	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20295
20299	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20296
20300	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20297
20301	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20298
20302	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20299

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
20304	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20301
20305	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20302
20306	68-SoCal_Chemicals (MidModerate_ICTurbines)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20303
20307	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20304
20308	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20305
20309	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20306
20310	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20307
20311	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	BSL NG Consumption (MMBtu/yr)	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20308
20312	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20309
20314	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20311
20315	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20312
20316	68-SoCal_Chemicals (MidModerate_ICTurbines)	2041_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20313
20317	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20314
20318	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	PRJ H2 Demand (MMBtu/yr)	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20315
20319	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20316
20320	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20317
20321	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	BSL NG Consumption (MMBtu/yr)	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20318
20322	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20319
20324	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20321
20325	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20322
20326	68-SoCal_Chemicals (MidModerate_ICTurbines)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20323
20327	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20324
20328	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20325
20329	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20326
20330	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20327
20331	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20328
20332	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20329
20334	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20331
20335	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20332
20336	68-SoCal_Chemicals (MidModerate_ICTurbines)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20333
20337	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20334
20338	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20335
20339	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20336
20340	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	Blend % H2 (scf/100-scf)	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20337
20341	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20338
20342	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	O2 Percent (scf/100-scf)	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20339
20344	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20341
20345	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20342
20346	68-SoCal_Chemicals (MidModerate_ICTurbines)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20343
20347	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20344
20348	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20345
20349	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20346

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
20350	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20347
20351	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20348
20352	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20349
20354	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20351
20355	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20352
20356	68-SoCal_Chemicals (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20353
20497	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20494
20498	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20495
20499	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20496
20500	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20497
20501	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20498
20502	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20499
20504	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20501
20505	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20502
20506	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20503
20507	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20504
20508	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20505
20509	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20506
20510	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20507
20511	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20508
20512	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20509
20514	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20511
20515	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20512
20516	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20513
20517	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20514
20518	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20515
20519	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20516
20520	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20517
20521	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20518
20522	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20519
20524	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20521
20525	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20522
20526	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20523
20527	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20524
20528	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20525
20529	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20526
20530	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20527
20531	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20528
20532	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20529
20534	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20531
20535	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20532
20536	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20533

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
20537	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20534
20538	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20535
20539	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20536
20540	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20537
20541	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20538
20542	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20539
20544	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20541
20545	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20542
20546	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20543
20547	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20544
20548	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20545
20549	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20546
20550	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20547
20551	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20548
20552	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20549
20554	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20551
20555	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20552
20556	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20553
20557	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20554
20558	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20555
20559	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20556
20560	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20557
20561	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20558
20562	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20559
20564	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20561
20565	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20562
20566	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20563
20567	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20564
20568	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20565
20569	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20566
20570	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20567
20571	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20568
20572	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20569
20574	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20571
20575	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20572
20576	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20573
20577	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20574
20578	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20575
20579	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20576
20580	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20577
20581	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20578
20582	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20579

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
20584	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20581
20585	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20582
20586	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20583
20587	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20584
20588	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20585
20589	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20586
20590	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20587
20591	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20588
20592	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20589
20594	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20591
20595	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20592
20596	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20593
20597	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20594
20598	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20595
20599	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20596
20600	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20597
20601	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20598
20602	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20599
20604	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20601
20605	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20602
20606	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20603
20607	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20604
20608	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20605
20609	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20606
20610	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20607
20611	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20608
20612	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20609
20614	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20611
20615	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20612
20616	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20613
20617	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20614
20618	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20615
20619	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20616
20620	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20617
20621	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20618
20622	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20619
20624	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20621
20625	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20622
20626	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20623
20627	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20624
20628	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20625
20629	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20626

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1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
20630	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20627
20631	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20628
20632	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20629
20634	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20631
20635	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20632
20636	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20633
20637	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20634
20638	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20635
20639	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20636
20640	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20637
20641	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20638
20642	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20639
20644	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20641
20645	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20642
20646	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20643
20647	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20644
20648	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20645
20649	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20646
20650	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20647
20651	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20648
20652	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20649
20654	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20651
20655	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20652
20656	69-SoCal_Chemicals (HighAmbitious_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20653
20797	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20794
20798	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20795
20799	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20796
20800	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20797
20801	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20798
20802	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20799
20804	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20801
20805	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20802
20806	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20803
20807	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20804
20808	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20805
20809	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20806
20810	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20807
20811	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20808
20812	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20809
20814	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20811
20815	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20812
20816	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20813

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
20817	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20814
20818	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20815
20819	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20816
20820	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20817
20821	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20818
20822	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20819
20824	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20821
20825	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20822
20826	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20823
20827	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20824
20828	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20825
20829	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20826
20830	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20827
20831	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20828
20832	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20829
20834	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20831
20835	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20832
20836	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20833
20837	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20834
20838	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20835
20839	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20836
20840	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20837
20841	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20838
20842	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20839
20844	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20841
20845	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20842
20846	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20843
20847	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20844
20848	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20845
20849	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20846
20850	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20847
20851	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20848
20852	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20849
20854	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20851
20855	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20852
20856	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20853
20857	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20854
20858	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20855
20859	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20856
20860	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20857
20861	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20858
20862	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20859

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
20864	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20861
20865	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20862
20866	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2036_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20863
20867	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20864
20868	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	PRJ H2 Demand (MMBtu/yr)	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20865
20869	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20866
20870	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20867
20871	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	BSL NG Consumption (MMBtu/yr)	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20868
20872	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20869
20874	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20871
20875	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20872
20876	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2037_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20873
20877	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20874
20878	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	PRJ H2 Demand (MMBtu/yr)	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20875
20879	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20876
20880	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20877
20881	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	BSL NG Consumption (MMBtu/yr)	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20878
20882	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20879
20884	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20881
20885	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20882
20886	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2038_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20883
20887	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20884
20888	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	PRJ H2 Demand (MMBtu/yr)	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20885
20889	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20886
20890	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20887
20891	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	BSL NG Consumption (MMBtu/yr)	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20888
20892	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20889
20894	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20891
20895	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20892
20896	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2039_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20893
20897	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20894
20898	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	PRJ H2 Demand (MMBtu/yr)	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20895
20899	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20896
20900	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20897
20901	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	BSL NG Consumption (MMBtu/yr)	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20898
20902	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20899
20904	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20901
20905	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20902
20906	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2040_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20903
20907	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20904
20908	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	PRJ H2 Demand (MMBtu/yr)	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20905
20909	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20906

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
20910	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20907
20911	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20908
20912	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20909
20914	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20911
20915	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20912
20916	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20913
20917	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20914
20918	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20915
20919	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20916
20920	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20917
20921	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20918
20922	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20919
20924	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20921
20925	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20922
20926	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20923
20927	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20924
20928	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20925
20929	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20926
20930	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20927
20931	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20928
20932	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20929
20934	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20931
20935	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20932
20936	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20933
20937	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20934
20938	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20935
20939	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20936
20940	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20937
20941	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20938
20942	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20939
20944	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20941
20945	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20942
20946	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20943
20947	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20944
20948	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20945
20949	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20946
20950	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20947
20951	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20948
20952	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20949
20954	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20951
20955	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20952
20956	70-SoCal_Chemicals (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT20953

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
21097	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21094
21098	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21095
21099	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21096
21100	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21097
21101	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21098
21102	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21099
21104	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21101
21105	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21102
21106	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21103
21107	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21104
21108	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21105
21109	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21106
21110	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21107
21111	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21108
21112	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21109
21114	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21111
21115	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21112
21116	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21113
21117	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21114
21118	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21115
21119	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21116
21120	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21117
21121	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21118
21122	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21119
21124	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21121
21125	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21122
21126	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21123
21127	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21124
21128	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21125
21129	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21126
21130	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21127
21131	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21128
21132	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21129
21134	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21131
21135	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21132
21136	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21133
21137	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21134
21138	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21135
21139	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21136
21140	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21137
21141	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21138
21142	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21139

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
21144	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21141
21145	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21142
21146	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21143
21147	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21144
21148	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21145
21149	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21146
21150	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21147
21151	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21148
21152	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21149
21154	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21151
21155	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21152
21156	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21153
21157	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21154
21158	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21155
21159	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21156
21160	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21157
21161	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21158
21162	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21159
21164	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21161
21165	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21162
21166	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21163
21167	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21164
21168	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21165
21169	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21166
21170	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21167
21171	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21168
21172	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21169
21174	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21171
21175	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21172
21176	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21173
21177	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21174
21178	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21175
21179	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21176
21180	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21177
21181	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21178
21182	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21179
21184	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21181
21185	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21182
21186	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21183
21187	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21184
21188	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21185
21189	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21186

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
21190	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21187
21191	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21188
21192	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21189
21194	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21191
21195	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21192
21196	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21193
21197	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21194
21198	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21195
21199	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21196
21200	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21197
21201	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21198
21202	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21199
21204	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21201
21205	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21202
21206	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21203
21207	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21204
21208	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21205
21209	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21206
21210	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21207
21211	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21208
21212	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21209
21214	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21211
21215	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21212
21216	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21213
21217	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21214
21218	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21215
21219	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21216
21220	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21217
21221	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21218
21222	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21219
21224	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21221
21225	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21222
21226	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21223
21227	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21224
21228	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21225
21229	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21226
21230	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21227
21231	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21228
21232	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21229
21234	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21231
21235	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21232
21236	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21233

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
21237	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21234
21238	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21235
21239	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21236
21240	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21237
21241	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21238
21242	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21239
21244	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21241
21245	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21242
21246	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21243
21247	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21244
21248	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21245
21249	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21246
21250	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21247
21251	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21248
21252	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21249
21254	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21251
21255	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21252
21256	71-SoCal_Chemicals (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21253
21397	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21394
21398	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	143716.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21395
21399	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21396
21400	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21397
21401	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2754753.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21398
21402	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21399
21404	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21401
21405	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21402
21406	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21403
21407	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21404
21408	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	177530.74	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21405
21409	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21406
21410	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21407
21411	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2830582.25	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21408
21412	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21409
21414	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21411
21415	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21412
21416	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21413
21417	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21414
21418	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	211837.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21415
21419	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21416
21420	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21417
21421	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	2912895.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21418
21422	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21419

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
21424	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21421
21425	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21422
21426	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21423
21427	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21424
21428	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	247088.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21425
21429	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21426
21430	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21427
21431	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3005502.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21428
21432	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21429
21434	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21431
21435	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21432
21436	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21433
21437	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21434
21438	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	283430.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21435
21439	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21436
21440	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21437
21441	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3107485.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21438
21442	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21439
21444	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21441
21445	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21442
21446	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21443
21447	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21444
21448	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	320123.32	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21445
21449	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21446
21450	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21447
21451	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3209610.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21448
21452	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21449
21454	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21451
21455	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21452
21456	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21453
21457	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21454
21458	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	357402.22	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21455
21459	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21456
21460	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21457
21461	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3314611.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21458
21462	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21459
21464	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21461
21465	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21462
21466	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21463
21467	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21464
21468	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	396305.03	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21465
21469	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21466

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
21470	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21467
21471	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3431401.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21468
21472	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21469
21474	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21471
21475	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21472
21476	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21473
21477	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21474
21478	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	435966.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21475
21479	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21476
21480	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21477
21481	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3551285.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21478
21482	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21479
21484	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21481
21485	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21482
21486	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21483
21487	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21484
21488	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	476942.95	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21485
21489	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21486
21490	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21487
21491	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3678542.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21488
21492	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21489
21494	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21491
21495	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21492
21496	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21493
21497	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21494
21498	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	535172.66	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21495
21499	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21496
21500	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21497
21501	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3814335.02	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21498
21502	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21499
21504	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21501
21505	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21502
21506	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21503
21507	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21504
21508	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	595481.53	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21505
21509	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21506
21510	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21507
21511	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	3958968.58	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21508
21512	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21509
21514	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21511
21515	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21512
21516	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21513

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
21517	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21514
21518	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	657082.26	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21515
21519	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21516
21520	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21517
21521	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4106596.01	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21518
21522	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21519
21524	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21521
21525	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21522
21526	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21523
21527	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21524
21528	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	720361.96	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21525
21529	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21526
21530	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21527
21531	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4259673.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21528
21532	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21529
21534	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21531
21535	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21532
21536	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21533
21537	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21534
21538	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	784764.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21535
21539	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21536
21540	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21537
21541	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4414866.39	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21538
21542	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21539
21544	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21541
21545	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21542
21546	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21543
21547	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21544
21548	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	848263.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21545
21549	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21546
21550	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21547
21551	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	4561561.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21548
21552	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21549
21554	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21551
21555	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21552
21556	72-SoCal_Chemicals (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21553
21697	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21694
21698	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	45248.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21695
21699	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21696
21700	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21697
21701	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21698
21702	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21699

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
21704	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21701
21705	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21702
21706	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21703
21707	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21704
21708	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	53711.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21705
21709	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21706
21710	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21707
21711	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21708
21712	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21709
21714	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21711
21715	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21712
21716	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21713
21717	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21714
21718	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	61573.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21715
21719	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21716
21720	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21717
21721	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21718
21722	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21719
21724	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21721
21725	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21722
21726	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21723
21727	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21724
21728	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	68857.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21725
21729	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21726
21730	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21727
21731	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21728
21732	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21729
21734	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21731
21735	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21732
21736	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21733
21737	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21734
21738	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	75589.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21735
21739	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21736
21740	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21737
21741	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21738
21742	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21739
21744	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21741
21745	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21742
21746	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21743
21747	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21744
21748	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	81798.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21745
21749	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21746

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
21750	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21747
21751	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21748
21752	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21749
21754	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21751
21755	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21752
21756	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21753
21757	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21754
21758	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	87518.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21755
21759	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21756
21760	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21757
21761	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21758
21762	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21759
21764	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21761
21765	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21762
21766	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21763
21767	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21764
21768	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	92784.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21765
21769	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21766
21770	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21767
21771	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21768
21772	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21769
21774	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21771
21775	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21772
21776	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21773
21777	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21774
21778	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	97629.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21775
21779	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21776
21780	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21777
21781	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21778
21782	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21779
21784	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21781
21785	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21782
21786	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21783
21787	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21784
21788	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	102087.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21785
21789	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21786
21790	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21787
21791	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21788
21792	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21789
21794	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21791
21795	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21792
21796	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21793

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
21797	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21794
21798	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	109056.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21795
21799	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21796
21800	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21797
21801	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21798
21802	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21799
21804	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21801
21805	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21802
21806	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21803
21807	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21804
21808	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	115515.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21805
21809	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21806
21810	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21807
21811	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21808
21812	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21809
21814	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21811
21815	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21812
21816	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21813
21817	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21814
21818	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	121505.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21815
21819	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21816
21820	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21817
21821	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21818
21822	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21819
21824	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21821
21825	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21822
21826	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21823
21827	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21824
21828	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	127062.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21825
21829	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21826
21830	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21827
21831	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21828
21832	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21829
21834	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21831
21835	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21832
21836	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21833
21837	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21834
21838	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	132223.71	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21835
21839	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21836
21840	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21837
21841	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21838
21842	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21839

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
21844	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21841
21845	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21842
21846	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21843
21847	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21844
21848	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	137020.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21845
21849	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21846
21850	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21847
21851	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21848
21852	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21849
21854	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21851
21855	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21852
21856	73-SoCal_AeroSpaceDefense (LowConservative_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21853
21997	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21994
21998	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	45248.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21995
21999	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21996
22000	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21997
22001	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21998
22002	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT21999
22004	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22001
22005	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22002
22006	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22003
22007	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22004
22008	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	53711.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22005
22009	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22006
22010	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22007
22011	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22008
22012	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22009
22014	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22011
22015	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22012
22016	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22013
22017	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22014
22018	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	61573.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22015
22019	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22016
22020	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22017
22021	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22018
22022	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22019
22024	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22021
22025	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22022
22026	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22023
22027	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22024
22028	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	68857.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22025
22029	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22026

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22030	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22027
22031	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22028
22032	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22029
22034	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22031
22035	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22032
22036	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22033
22037	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22034
22038	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	75589.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22035
22039	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22036
22040	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22037
22041	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22038
22042	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22039
22044	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22041
22045	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22042
22046	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22043
22047	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22044
22048	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	81798.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22045
22049	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22046
22050	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22047
22051	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22048
22052	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22049
22054	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22051
22055	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22052
22056	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22053
22057	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22054
22058	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	87518.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22055
22059	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22056
22060	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22057
22061	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22058
22062	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22059
22064	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22061
22065	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22062
22066	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22063
22067	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22064
22068	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	92784.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22065
22069	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22066
22070	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22067
22071	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22068
22072	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22069
22074	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22071
22075	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22072
22076	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22073

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	**Fuel Type**	**Parameter**	**Value**	**Reference**
22077	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22074
22078	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	97629.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22075
22079	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22076
22080	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22077
22081	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22078
22082	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22079
22084	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22081
22085	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22082
22086	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22083
22087	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22084
22088	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	102087.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22085
22089	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22086
22090	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22087
22091	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22088
22092	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22089
22094	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22091
22095	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22092
22096	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22093
22097	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22094
22098	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	109056.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22095
22099	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22096
22100	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22097
22101	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22098
22102	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22099
22104	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22101
22105	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22102
22106	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22103
22107	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22104
22108	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	115515.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22105
22109	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22106
22110	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22107
22111	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22108
22112	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22109
22114	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22111
22115	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22112
22116	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22113
22117	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22114
22118	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	121505.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22115
22119	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22116
22120	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22117
22121	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22118
22122	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22119

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	Value	Reference
22124	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22121
22125	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22122
22126	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22123
22127	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22124
22128	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	127062.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22125
22129	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22126
22130	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22127
22131	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22128
22132	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22129
22134	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22131
22135	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22132
22136	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22133
22137	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22134
22138	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	132223.71	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22135
22139	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22136
22140	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22137
22141	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22138
22142	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22139
22144	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22141
22145	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22142
22146	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22143
22147	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22144
22148	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	137020.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22145
22149	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22146
22150	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22147
22151	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22148
22152	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22149
22154	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22151
22155	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22152
22156	74-SoCal_AeroSpaceDefense (LowConservative_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22153
22297	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22294
22298	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	45248.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22295
22299	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22296
22300	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22297
22301	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22298
22302	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22299
22304	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22301
22305	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22302
22306	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22303
22307	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22304
22308	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	53711.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22305
22309	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22306

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22310	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22307
22311	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22308
22312	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22309
22314	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22311
22315	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22312
22316	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22313
22317	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22314
22318	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	61573.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22315
22319	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22316
22320	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22317
22321	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22318
22322	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22319
22324	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22321
22325	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22322
22326	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22323
22327	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22324
22328	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	68857.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22325
22329	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22326
22330	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22327
22331	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22328
22332	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22329
22334	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22331
22335	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22332
22336	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22333
22337	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22334
22338	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	75589.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22335
22339	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22336
22340	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22337
22341	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22338
22342	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22339
22344	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22341
22345	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22342
22346	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22343
22347	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22344
22348	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	81798.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22345
22349	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22346
22350	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22347
22351	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22348
22352	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22349
22354	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22351
22355	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22352
22356	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22353

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations)".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
22357	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22354
22358	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	87518.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22355
22359	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22356
22360	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22357
22361	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22358
22362	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22359
22364	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22361
22365	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22362
22366	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22363
22367	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22364
22368	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	92784.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22365
22369	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22366
22370	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22367
22371	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22368
22372	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22369
22374	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22371
22375	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22372
22376	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22373
22377	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22374
22378	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	97629.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22375
22379	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22376
22380	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22377
22381	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22378
22382	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22379
22384	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22381
22385	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22382
22386	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22383
22387	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22384
22388	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	102087.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22385
22389	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22386
22390	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22387
22391	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22388
22392	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22389
22394	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22391
22395	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22392
22396	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22393
22397	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22394
22398	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	109056.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22395
22399	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22396
22400	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22397
22401	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22398
22402	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22399

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22404	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22401
22405	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22402
22406	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22403
22407	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22404
22408	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	115515.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22405
22409	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22406
22410	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22407
22411	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22408
22412	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22409
22414	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22411
22415	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22412
22416	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22413
22417	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22414
22418	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	121505.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22415
22419	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22416
22420	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22417
22421	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22418
22422	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22419
22424	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22421
22425	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22422
22426	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22423
22427	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22424
22428	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	127062.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22425
22429	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22426
22430	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22427
22431	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22428
22432	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22429
22434	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22431
22435	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22432
22436	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22433
22437	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22434
22438	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	132223.71	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22435
22439	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22436
22440	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22437
22441	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22438
22442	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22439
22444	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22441
22445	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22442
22446	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22443
22447	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22444
22448	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	137020.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22445
22449	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22446

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22450	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22447
22451	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22448
22452	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22449
22454	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22451
22455	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22452
22456	75-SoCal_AeroSpaceDefense (LowConservative_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22453
22597	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22594
22598	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	45248.89	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22595
22599	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22596
22600	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22597
22601	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22598
22602	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22599
22604	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22601
22605	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22602
22606	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22603
22607	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22604
22608	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	53711.42	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22605
22609	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22606
22610	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22607
22611	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22608
22612	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22609
22614	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22611
22615	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22612
22616	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22613
22617	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22614
22618	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	61573.54	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22615
22619	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22616
22620	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22617
22621	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22618
22622	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22619
22624	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22621
22625	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22622
22626	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22623
22627	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22624
22628	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	68857.34	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22625
22629	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22626
22630	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22627
22631	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22628
22632	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22629
22634	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22631
22635	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22632
22636	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22633

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22637	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22634
22638	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	75589.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22635
22639	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22636
22640	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22637
22641	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22638
22642	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22639
22644	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22641
22645	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22642
22646	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22643
22647	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22644
22648	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	81798.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22645
22649	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22646
22650	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22647
22651	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22648
22652	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22649
22654	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22651
22655	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22652
22656	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22653
22657	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22654
22658	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	87518.93	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22655
22659	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22656
22660	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22657
22661	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22658
22662	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22659
22664	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22661
22665	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22662
22666	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22663
22667	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22664
22668	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	92784.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22665
22669	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22666
22670	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22667
22671	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22668
22672	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22669
22674	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22671
22675	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22672
22676	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22673
22677	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22674
22678	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	97629.08	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22675
22679	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22676
22680	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22677
22681	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22678
22682	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22679

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22684	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22681
22685	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22682
22686	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22683
22687	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22684
22688	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	102087.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22685
22689	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22686
22690	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22687
22691	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22688
22692	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22689
22694	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22691
22695	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22692
22696	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22693
22697	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22694
22698	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	109056.84	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22695
22699	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22696
22700	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22697
22701	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22698
22702	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22699
22704	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22701
22705	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22702
22706	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22703
22707	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22704
22708	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	115515.68	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22705
22709	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22706
22710	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22707
22711	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22708
22712	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22709
22714	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22711
22715	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22712
22716	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22713
22717	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22714
22718	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	121505.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22715
22719	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22716
22720	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22717
22721	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22718
22722	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22719
22724	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22721
22725	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22722
22726	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22723
22727	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22724
22728	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	127062.70	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22725
22729	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22726

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
22730	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22727
22731	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22728
22732	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22729
22734	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22731
22735	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22732
22736	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22733
22737	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22734
22738	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	132223.71	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22735
22739	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22736
22740	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22737
22741	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22738
22742	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22739
22744	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22741
22745	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22742
22746	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22743
22747	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22744
22748	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	137020.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22745
22749	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22746
22750	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22747
22751	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22748
22752	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22749
22754	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22751
22755	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22752
22756	76-SoCal_AeroSpaceDefense (LowConservative_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22753
22897	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22894
22898	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22895
22899	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22896
22900	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22897
22901	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22898
22902	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22899
22904	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22901
22905	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22902
22906	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22903
22907	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22904
22908	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22905
22909	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22906
22910	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22907
22911	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22908
22912	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22909
22914	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22911
22915	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22912
22916	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22913

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22917	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22914
22918	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22915
22919	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22916
22920	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22917
22921	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22918
22922	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22919
22924	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22921
22925	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22922
22926	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22923
22927	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22924
22928	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22925
22929	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22926
22930	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22927
22931	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22928
22932	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22929
22934	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22931
22935	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22932
22936	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22933
22937	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22934
22938	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22935
22939	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22936
22940	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22937
22941	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22938
22942	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22939
22944	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22941
22945	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22942
22946	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22943
22947	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22944
22948	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22945
22949	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22946
22950	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22947
22951	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22948
22952	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22949
22954	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22951
22955	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22952
22956	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22953
22957	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22954
22958	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22955
22959	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22956
22960	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22957
22961	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22958
22962	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22959

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
22964	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22961
22965	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22962
22966	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22963
22967	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22964
22968	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22965
22969	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22966
22970	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22967
22971	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22968
22972	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22969
22974	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22971
22975	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22972
22976	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22973
22977	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22974
22978	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22975
22979	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22976
22980	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22977
22981	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22978
22982	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22979
22984	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22981
22985	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22982
22986	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22983
22987	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22984
22988	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22985
22989	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22986
22990	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22987
22991	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22988
22992	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22989
22994	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22991
22995	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22992
22996	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22993
22997	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22994
22998	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22995
22999	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22996
23000	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22997
23001	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22998
23002	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT22999
23004	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23001
23005	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23002
23006	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23003
23007	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23004
23008	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23005
23009	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23006

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23010	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23007
23011	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23008
23012	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23009
23014	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23011
23015	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23012
23016	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23013
23017	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23014
23018	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23015
23019	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23016
23020	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23017
23021	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23018
23022	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23019
23024	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23021
23025	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23022
23026	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23023
23027	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23024
23028	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23025
23029	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23026
23030	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23027
23031	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23028
23032	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23029
23034	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23031
23035	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23032
23036	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23033
23037	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23034
23038	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23035
23039	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23036
23040	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23037
23041	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23038
23042	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23039
23044	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23041
23045	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23042
23046	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23043
23047	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23044
23048	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23045
23049	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23046
23050	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23047
23051	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23048
23052	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23049
23054	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23051
23055	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23052
23056	77-SoCal_AeroSpaceDefense (MidModerate_ECGeneral)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23053

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
23197	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23194
23198	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23195
23199	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23196
23200	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23197
23201	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23198
23202	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23199
23204	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23201
23205	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23202
23206	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23203
23207	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23204
23208	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23205
23209	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23206
23210	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23207
23211	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23208
23212	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23209
23214	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23211
23215	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23212
23216	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23213
23217	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23214
23218	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23215
23219	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23216
23220	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23217
23221	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23218
23222	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23219
23224	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23221
23225	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23222
23226	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23223
23227	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23224
23228	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23225
23229	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23226
23230	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23227
23231	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23228
23232	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23229
23234	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23231
23235	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23232
23236	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23233
23237	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23234
23238	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23235
23239	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23236
23240	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23237
23241	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23238
23242	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23239

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
23244	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23241
23245	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23242
23246	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23243
23247	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23244
23248	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23245
23249	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23246
23250	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23247
23251	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23248
23252	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23249
23254	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23251
23255	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23252
23256	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23253
23257	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23254
23258	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23255
23259	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23256
23260	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23257
23261	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23258
23262	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23259
23264	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23261
23265	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23262
23266	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23263
23267	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23264
23268	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23265
23269	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23266
23270	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23267
23271	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23268
23272	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23269
23274	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23271
23275	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23272
23276	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23273
23277	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23274
23278	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23275
23279	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23276
23280	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23277
23281	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23278
23282	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23279
23284	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23281
23285	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23282
23286	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23283
23287	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23284
23288	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23285
23289	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23286

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23290	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23287
23291	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23288
23292	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23289
23294	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23291
23295	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23292
23296	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23293
23297	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23294
23298	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23295
23299	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23296
23300	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23297
23301	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23298
23302	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23299
23304	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23301
23305	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23302
23306	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23303
23307	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23304
23308	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23305
23309	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23306
23310	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23307
23311	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23308
23312	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23309
23314	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23311
23315	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23312
23316	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23313
23317	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23314
23318	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23315
23319	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23316
23320	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23317
23321	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23318
23322	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23319
23324	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23321
23325	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23322
23326	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23323
23327	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23324
23328	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23325
23329	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23326
23330	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23327
23331	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23328
23332	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23329
23334	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23331
23335	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23332
23336	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23333

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
23337	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23334
23338	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23335
23339	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23336
23340	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23337
23341	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23338
23342	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23339
23344	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23341
23345	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23342
23346	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23343
23347	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23344
23348	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23345
23349	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23346
23350	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23347
23351	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23348
23352	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23349
23354	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23351
23355	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23352
23356	78-SoCal_AeroSpaceDefense (MidModerate_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23353
23497	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23494
23498	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23495
23499	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23496
23500	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23497
23501	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23498
23502	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23499
23504	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23501
23505	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23502
23506	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23503
23507	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23504
23508	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23505
23509	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23506
23510	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23507
23511	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23508
23512	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23509
23514	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23511
23515	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23512
23516	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23513
23517	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23514
23518	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23515
23519	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23516
23520	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23517
23521	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23518
23522	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23519

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23524	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23521
23525	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23522
23526	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23523
23527	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23524
23528	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23525
23529	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23526
23530	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23527
23531	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23528
23532	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23529
23534	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23531
23535	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23532
23536	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23533
23537	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23534
23538	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23535
23539	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23536
23540	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23537
23541	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23538
23542	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23539
23544	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23541
23545	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23542
23546	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23543
23547	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23544
23548	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23545
23549	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23546
23550	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23547
23551	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23548
23552	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23549
23554	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23551
23555	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23552
23556	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23553
23557	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23554
23558	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23555
23559	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23556
23560	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23557
23561	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23558
23562	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23559
23564	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23561
23565	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23562
23566	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23563
23567	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23564
23568	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23565
23569	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23566

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23570	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23567
23571	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23568
23572	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23569
23574	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23571
23575	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23572
23576	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23573
23577	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23574
23578	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23575
23579	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23576
23580	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23577
23581	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23578
23582	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23579
23584	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23581
23585	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23582
23586	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23583
23587	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23584
23588	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23585
23589	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23586
23590	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23587
23591	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23588
23592	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23589
23594	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23591
23595	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23592
23596	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23593
23597	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23594
23598	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23595
23599	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23596
23600	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23597
23601	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23598
23602	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23599
23604	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23601
23605	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23602
23606	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23603
23607	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23604
23608	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23605
23609	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23606
23610	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23607
23611	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23608
23612	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23609
23614	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23611
23615	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23612
23616	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23613

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23617	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23614
23618	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23615
23619	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23616
23620	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23617
23621	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23618
23622	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23619
23624	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23621
23625	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23622
23626	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23623
23627	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23624
23628	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23625
23629	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23626
23630	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23627
23631	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23628
23632	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23629
23634	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23631
23635	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23632
23636	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23633
23637	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23634
23638	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23635
23639	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23636
23640	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23637
23641	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23638
23642	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23639
23644	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23641
23645	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23642
23646	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23643
23647	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23644
23648	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23645
23649	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23646
23650	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23647
23651	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23648
23652	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23649
23654	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23651
23655	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23652
23656	79-SoCal_AeroSpaceDefense (MidModerate_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23653
23797	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23794
23798	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23795
23799	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23796
23800	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23797
23801	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23798
23802	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23799

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23804	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23801
23805	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23802
23806	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23803
23807	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23804
23808	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23805
23809	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23806
23810	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23807
23811	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23808
23812	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23809
23814	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23811
23815	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23812
23816	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23813
23817	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23814
23818	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23815
23819	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23816
23820	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23817
23821	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23818
23822	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23819
23824	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23821
23825	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23822
23826	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23823
23827	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23824
23828	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23825
23829	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23826
23830	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23827
23831	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23828
23832	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23829
23834	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23831
23835	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23832
23836	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23833
23837	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23834
23838	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23835
23839	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23836
23840	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23837
23841	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23838
23842	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23839
23844	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23841
23845	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23842
23846	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23843
23847	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23844
23848	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23845
23849	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23846

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23850	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23847
23851	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23848
23852	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23849
23854	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23851
23855	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23852
23856	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23853
23857	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23854
23858	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23855
23859	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23856
23860	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23857
23861	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23858
23862	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23859
23864	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23861
23865	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23862
23866	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23863
23867	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23864
23868	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23865
23869	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23866
23870	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23867
23871	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23868
23872	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23869
23874	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23871
23875	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23872
23876	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23873
23877	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23874
23878	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23875
23879	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23876
23880	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23877
23881	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23878
23882	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23879
23884	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23881
23885	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23882
23886	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23883
23887	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23884
23888	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23885
23889	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23886
23890	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23887
23891	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23888
23892	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23889
23894	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23891
23895	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23892
23896	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23893

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23897	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23894
23898	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23895
23899	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23896
23900	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23897
23901	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23898
23902	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23899
23904	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23901
23905	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23902
23906	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23903
23907	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23904
23908	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23905
23909	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23906
23910	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23907
23911	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23908
23912	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23909
23914	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23911
23915	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23912
23916	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23913
23917	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23914
23918	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23915
23919	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23916
23920	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23917
23921	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23918
23922	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23919
23924	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23921
23925	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23922
23926	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23923
23927	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23924
23928	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23925
23929	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23926
23930	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23927
23931	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23928
23932	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23929
23934	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23931
23935	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23932
23936	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23933
23937	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23934
23938	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23935
23939	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23936
23940	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23937
23941	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23938
23942	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23939

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
23944	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23941
23945	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23942
23946	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23943
23947	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23944
23948	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23945
23949	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23946
23950	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23947
23951	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23948
23952	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23949
23954	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23951
23955	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23952
23956	80-SoCal_AeroSpaceDefense (MidModerate_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT23953
24097	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24094
24098	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24095
24099	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24096
24100	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24097
24101	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24098
24102	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24099
24104	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24101
24105	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24102
24106	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24103
24107	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24104
24108	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24105
24109	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24106
24110	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24107
24111	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24108
24112	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24109
24114	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24111
24115	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24112
24116	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24113
24117	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24114
24118	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24115
24119	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24116
24120	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24117
24121	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24118
24122	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24119
24124	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24121
24125	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24122
24126	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24123
24127	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24124
24128	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24125
24129	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24126

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24130	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24127
24131	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24128
24132	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24129
24134	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24131
24135	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24132
24136	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24133
24137	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24134
24138	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24135
24139	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24136
24140	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24137
24141	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24138
24142	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24139
24144	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24141
24145	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24142
24146	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24143
24147	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24144
24148	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24145
24149	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24146
24150	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24147
24151	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24148
24152	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24149
24154	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24151
24155	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24152
24156	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24153
24157	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24154
24158	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24155
24159	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24156
24160	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24157
24161	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24158
24162	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24159
24164	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24161
24165	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24162
24166	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24163
24167	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24164
24168	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24165
24169	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24166
24170	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24167
24171	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24168
24172	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24169
24174	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24171
24175	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24172
24176	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24173

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24177	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24174
24178	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24175
24179	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24176
24180	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24177
24181	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24178
24182	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24179
24184	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24181
24185	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24182
24186	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24183
24187	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24184
24188	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24185
24189	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24186
24190	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24187
24191	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24188
24192	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24189
24194	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24191
24195	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24192
24196	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24193
24197	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24194
24198	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24195
24199	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24196
24200	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24197
24201	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24198
24202	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24199
24204	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24201
24205	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24202
24206	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24203
24207	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24204
24208	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24205
24209	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24206
24210	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24207
24211	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24208
24212	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24209
24214	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24211
24215	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24212
24216	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24213
24217	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24214
24218	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24215
24219	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24216
24220	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24217
24221	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24218
24222	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	*O2 Percent (scf/100-scf)*	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24219

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
24224	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24221
24225	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24222
24226	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2042_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24223
24227	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24224
24228	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	PRJ H2 Demand (MMBtu/yr)	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24225
24229	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24226
24230	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24227
24231	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	BSL NG Consumption (MMBtu/yr)	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24228
24232	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24229
24234	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24231
24235	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24232
24236	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2043_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24233
24237	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24234
24238	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	PRJ H2 Demand (MMBtu/yr)	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24235
24239	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24236
24240	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24237
24241	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	BSL NG Consumption (MMBtu/yr)	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24238
24242	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24239
24244	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24241
24245	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24242
24246	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2044_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24243
24247	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	81.20	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24244
24248	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	PRJ H2 Demand (MMBtu/yr)	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24245
24249	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24246
24250	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24247
24251	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	BSL NG Consumption (MMBtu/yr)	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24248
24252	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	O2 Percent (scf/100-scf)	3.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24249
24254	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24251
24255	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24252
24256	81-SoCal_AeroSpaceDefense (HighAmbitious_ECGeneral)	2045_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24253
24397	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24394
24398	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	PRJ H2 Demand (MMBtu/yr)	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24395
24399	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24396
24400	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	Blend % H2 (scf/100-scf)	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24397
24401	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	BSL NG Consumption (MMBtu/yr)	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24398
24402	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	O2 Percent (scf/100-scf)	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24399
24404	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	NG CO2 EF (MT CO2/MMBtu)	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24401
24405	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	NG CH4 EF (MT CH4/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24402
24406	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2030_H2-NG	NG N2O EF (MT N2O/MMBtu)	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24403
24407	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	Equip. Throughput Fraction (MMBtu/100-MMBtu)	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24404
24408	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	PRJ H2 Demand (MMBtu/yr)	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24405
24409	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	PRJ % Overall H2 as Blend (scf/100-scf)	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24406

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
24410	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24407
24411	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24408
24412	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24409
24414	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24411
24415	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24412
24416	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24413
24417	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24414
24418	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24415
24419	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24416
24420	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24417
24421	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24418
24422	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24419
24424	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24421
24425	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24422
24426	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24423
24427	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24424
24428	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24425
24429	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24426
24430	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24427
24431	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24428
24432	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24429
24434	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24431
24435	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24432
24436	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24433
24437	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24434
24438	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24435
24439	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24436
24440	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24437
24441	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24438
24442	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24439
24444	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24441
24445	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24442
24446	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24443
24447	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24444
24448	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24445
24449	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24446
24450	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24447
24451	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24448
24452	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24449
24454	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24451
24455	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24452
24456	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24453

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24457	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24454
24458	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24455
24459	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24456
24460	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24457
24461	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24458
24462	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24459
24464	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24461
24465	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24462
24466	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24463
24467	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24464
24468	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24465
24469	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24466
24470	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24467
24471	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24468
24472	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24469
24474	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24471
24475	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24472
24476	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24473
24477	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24474
24478	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24475
24479	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24476
24480	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24477
24481	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24478
24482	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24479
24484	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24481
24485	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24482
24486	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24483
24487	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24484
24488	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24485
24489	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24486
24490	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24487
24491	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24488
24492	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24489
24494	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24491
24495	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24492
24496	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24493
24497	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24494
24498	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24495
24499	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24496
24500	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24497
24501	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24498
24502	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24499

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24504	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24501
24505	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24502
24506	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24503
24507	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24504
24508	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24505
24509	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24506
24510	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24507
24511	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24508
24512	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24509
24514	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24511
24515	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24512
24516	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24513
24517	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24514
24518	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24515
24519	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24516
24520	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24517
24521	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24518
24522	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24519
24524	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24521
24525	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24522
24526	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24523
24527	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24524
24528	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24525
24529	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24526
24530	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24527
24531	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24528
24532	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24529
24534	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24531
24535	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24532
24536	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24533
24537	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24534
24538	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24535
24539	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24536
24540	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24537
24541	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24538
24542	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24539
24544	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24541
24545	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24542
24546	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24543
24547	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	0.24	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24544
24548	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24545
24549	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24546

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	*Fuel Type*	*Parameter*	**Value**	**Reference**
24550	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	16.33	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24547
24551	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24548
24552	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*O2 Percent (scf/100-scf)*	19.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24549
24554	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24551
24555	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24552
24556	82-SoCal_AeroSpaceDefense (HighAmbitious_ECOvens)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24553
24697	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24694
24698	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24695
24699	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24696
24700	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24697
24701	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24698
24702	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24699
24704	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24701
24705	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24702
24706	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24703
24707	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24704
24708	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24705
24709	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24706
24710	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24707
24711	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24708
24712	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24709
24714	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24711
24715	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24712
24716	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24713
24717	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24714
24718	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24715
24719	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24716
24720	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24717
24721	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24718
24722	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24719
24724	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24721
24725	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24722
24726	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24723
24727	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24724
24728	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24725
24729	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24726
24730	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24727
24731	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24728
24732	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24729
24734	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24731
24735	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24732
24736	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24733

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24737	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24734
24738	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24735
24739	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24736
24740	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24737
24741	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24738
24742	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24739
24744	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24741
24745	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24742
24746	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24743
24747	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24744
24748	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24745
24749	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24746
24750	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24747
24751	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24748
24752	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24749
24754	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24751
24755	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24752
24756	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24753
24757	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24754
24758	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24755
24759	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24756
24760	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24757
24761	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24758
24762	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24759
24764	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24761
24765	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24762
24766	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24763
24767	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24764
24768	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24765
24769	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24766
24770	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24767
24771	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24768
24772	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24769
24774	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24771
24775	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24772
24776	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24773
24777	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24774
24778	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24775
24779	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24776
24780	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24777
24781	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24778
24782	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24779

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24784	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24781
24785	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24782
24786	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24783
24787	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24784
24788	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24785
24789	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24786
24790	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24787
24791	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24788
24792	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24789
24794	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24791
24795	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24792
24796	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24793
24797	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24794
24798	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24795
24799	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24796
24800	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24797
24801	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24798
24802	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24799
24804	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24801
24805	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24802
24806	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24803
24807	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24804
24808	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24805
24809	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24806
24810	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24807
24811	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24808
24812	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24809
24814	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24811
24815	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24812
24816	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24813
24817	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24814
24818	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24815
24819	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24816
24820	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24817
24821	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24818
24822	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24819
24824	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24821
24825	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24822
24826	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24823
24827	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24824
24828	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24825
24829	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24826

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
24830	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24827
24831	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24828
24832	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24829
24834	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24831
24835	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24832
24836	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24833
24837	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24834
24838	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24835
24839	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24836
24840	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24837
24841	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24838
24842	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24839
24844	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24841
24845	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24842
24846	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24843
24847	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	12.78	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24844
24848	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24845
24849	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24846
24850	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	25.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24847
24851	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24848
24852	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24849
24854	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24851
24855	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24852
24856	83-SoCal_AeroSpaceDefense (HighAmbitious_ICEngines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24853
24997	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24994
24998	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	57212.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24995
24999	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	80.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24996
25000	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24997
25001	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*BSL NG Consumption (MMBtu/yr)*	964650.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24998
25002	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT24999
25004	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25001
25005	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25002
25006	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2030_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25003
25007	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25004
25008	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	69987.77	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25005
25009	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	76.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25006
25010	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25007
25011	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*BSL NG Consumption (MMBtu/yr)*	987880.49	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25008
25012	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25009
25014	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25011
25015	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25012
25016	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2031_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25013

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
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6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
25017	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25014
25018	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	82868.45	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25015
25019	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	72.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25016
25020	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25017
25021	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1013255.09	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25018
25022	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25019
25024	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25021
25025	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25022
25026	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2032_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25023
25027	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25024
25028	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	94884.37	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25025
25029	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	68.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25026
25030	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25027
25031	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1029648.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25028
25032	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25029
25034	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25031
25035	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25032
25036	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2033_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25033
25037	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25034
25038	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	107026.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25035
25039	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	64.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25036
25040	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25037
25041	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1049500.38	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25038
25042	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25039
25044	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25041
25045	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25042
25046	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2034_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25043
25047	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25044
25048	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	118718.21	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25045
25049	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	60.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25046
25050	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25047
25051	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1066740.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25048
25052	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25049
25054	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25051
25055	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25052
25056	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2035_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25053
25057	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25054
25058	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	129127.44	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25055
25059	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	56.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25056
25060	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25057
25061	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1075027.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25058
25062	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25059

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2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
25064	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25061
25065	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25062
25066	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2036_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25063
25067	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25064
25068	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	139537.72	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25065
25069	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	52.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25066
25070	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25067
25071	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1086078.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25068
25072	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25069
25074	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25071
25075	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25072
25076	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2037_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25073
25077	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25074
25078	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	149069.46	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25075
25079	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	48.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25076
25080	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25077
25081	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1092849.67	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25078
25082	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25079
25084	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25081
25085	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25082
25086	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2038_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25083
25087	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25084
25088	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	159219.07	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25085
25089	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	44.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25086
25090	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25087
25091	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1106330.85	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25088
25092	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25089
25094	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25091
25095	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25092
25096	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2039_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25093
25097	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25094
25098	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	173928.27	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25095
25099	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	40.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25096
25100	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25097
25101	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1121321.06	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25098
25102	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25099
25104	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25101
25105	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25102
25106	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2040_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25103
25107	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25104
25108	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	188206.73	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25105
25109	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	36.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25106

	A	C	D	E	F
1					
2	**Tab Contents**				
3	"ALP1_GHG_IndustPow_3_DataPrep_SoCalGas", "1. Data_Prep_Industrial" tab. The input data in this tab was processed through the function in "3.1 EQ Industrial GHG Calc" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
25110	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25107
25111	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1135580.16	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25108
25112	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25109
25114	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25111
25115	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25112
25116	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2041_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25113
25117	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25114
25118	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	202204.50	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25115
25119	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	32.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25116
25120	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25117
25121	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1150039.23	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25118
25122	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25119
25124	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25121
25125	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25122
25126	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2042_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25123
25127	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25124
25128	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	215057.11	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25125
25129	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	28.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25126
25130	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25127
25131	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1159953.17	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25128
25132	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25129
25134	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25131
25135	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25132
25136	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2043_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25133
25137	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25134
25138	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	228014.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25135
25139	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	24.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25136
25140	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25137
25141	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1172340.18	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25138
25142	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25139
25144	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25141
25145	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25142
25146	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2044_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25143
25147	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*Equip. Throughput Fraction (MMBtu/100-MMBtu)*	5.79	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25144
25148	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ H2 Demand (MMBtu/yr)*	241251.55	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25145
25149	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*PRJ % Overall H2 as Blend (scf/100-scf)*	20.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25146
25150	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*Blend % H2 (scf/100-scf)*	56.83	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25147
25151	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*BSL NG Consumption (MMBtu/yr)*	1187670.81	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25148
25152	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*O2 Percent (scf/100-scf)*	15.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25149
25154	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CO2 EF (MT CO2/MMBtu)*	0.05	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25151
25155	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*NG CH4 EF (MT CH4/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25152
25156	84-SoCal_AeroSpaceDefense (HighAmbitious_ICTurbines)	2045_H2-NG	*NG N2O EF (MT N2O/MMBtu)*	0.00	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT25153

Sample Emission Calculation

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Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption (MMBtu/yr) x Equip. Throughput Fraction (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate) (MMBtu/yr) - PRJ Overall H2 Heat Rate) (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = NG CH4 Ef (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Sample Emission Calculation

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BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ % Overall H2 as Blend (scf/100-scf) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Industrial GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	21.18	MMBtu/100-MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1347
PRJ H2 Demand	0.00	MMBtu/yr	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1348
PRJ % Overall H2 as Blend	60.00	scf/100-scf	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1349
Blend % H2	16.33	scf/100-scf	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1350
Blend % NG	83.67	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	2.45	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	97.55	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	6.13	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blend % NG (Heat)	93.87	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) /

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
			(%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	0.00	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

10/14/2024

Parameter	Value	Units	Resource
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	23,389.62	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calc

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
			ulation%20Sheets%20for%20Import/ EQ%20Molar%20Volume.xlsm
BSL NG Vol	24,019,698,266.72	scf/yr	Calculated Below
PRJ H2 Vol	0.00	scf/yr	Calculated Below
PRJ NG Vol	24,019,698,266.72	scf/yr	Calculated Below
BSL NG Consumption	115,656,653.83	MMBtu/yr	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1351
BSL Overall Heat Rate	24,500,092.23	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	24,500,092.23	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	0.00	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	0.00	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	24,500,092.23	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
			default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	24,500,092.23	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.049	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,542.44	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	3.00	scf/100-scf	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1352
O2 Correction	1.17	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.02	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1354
NG CH4 EF	0.000001	MT CH4/MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1355

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
NG N2O EF	0.0000001	MT N2O/MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV1356
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.000000996	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.000000100	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000007	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000010	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	1,299,974.89	MT CO2e/yr	Calculated Below
BSL CH4	730.10	MT CO2e/yr	Calculated Below
BSL N2O	668.85	MT CO2e/yr	Calculated Below
Displaced CO2	0.00	MT CO2e/yr	Calculated Below
Displaced CH4	0.00	MT CO2e/yr	Calculated Below
Displaced N2O	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	1,299,974.89	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	730.10	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	668.85	MT CO2e/yr	Calculated Below

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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Parameter	Value	Units	Resource
PRJ 100%-NG GHG	1,301,373.85	MT CO2e/yr	Calculated Below
PRJ Blend-NG CO2	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	0.00	MT CO2e/yr	Calculated Below
PRJ Overall CO2	1,299,974.89	MT CO2e/yr	Calculated Below
PRJ Overall CH4	730.10	MT CO2e/yr	Calculated Below
PRJ Overall N2O	668.85	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 115,656,653.831582 (MMBtu/yr) x 21.1834697 (MMBtu/100-MMBtu) = 24,500,092.2320522 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 115,656,653.831582 (MMBtu/yr) x 21.1834697 (MMBtu/100-MMBtu) = 24,500,092.2320522 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 0.0 (MMBtu/yr) x 21.1834697 (MMBtu/100-MMBtu) = 0.0 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 24,500,092.2320522 (MMBtu/yr) - 0.0 (MMBtu/yr) = 24,500,092.2320522 (MMBtu/yr)

BSL NG Vol (scf/yr) = 24,500,092.2320522 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 24,019,698,266.7178 (scf/yr)

PRJ NG Vol (scf/yr) = 24,500,092.2320522 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 24,019,698,266.7178 (scf/yr)

PRJ H2 Vol (scf/yr) = 0.0 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 0.0 (scf/yr)

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

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Fd (H_2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 6.1265945 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 93.8734055 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,542.4406566 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 2.4526217 (lb/100-lb) x 60,920.0 (Btu/lb) + 97.5473783 (lb/100-lb) x 22,446.0 (Btu/lb) = 23,389.6216773 (Btu/lb)

Blend-NG CO_2 EF (MT CO_2/MMBtu) = 0.05306 (MT CO_2/MMBtu) x 1.0155167 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,542.4406566 (scf/MMBtu) = 0.0528467 (MT CO_2/MMBtu)

Blend-NG CH_4 (MT CH_4/MMBtu) = 0.000001 (MT CH_4/MMBtu) x 1.0155167 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,542.4406566 (scf/MMBtu) = 0.000001 (MT CH_4/MMBtu)

Blend-NG N_2O (MT N_2O/MMBtu) = 0.0000001 (MT N_2O/MMBtu) x 1.0155167 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,542.4406566 (scf/MMBtu) = 0.0000001 (MT N_2O/MMBtu)

100%-H_2 N_2O EF (MT N_2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 1.1675978 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000007 (MT/MMBtu)

Blend-H_2 N_2O EF (MT N_2O/MMBtu) = 2.0 (ppm) ÷ 1.0155167 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,542.4406566 (scf/MMBtu) x 1.1675978 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.000001 (MT/MMBtu)

BSL CO_2 (MT CO_2/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) = 1,299,974.8938327 (MT CO_2/yr)

BSL CO_2 (MT CO_2e/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 1,299,974.8938327 (MT CO_2e/yr)

BSL CH_4 (MT CH_4/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 24.5000922 (MT CH_4/yr)

BSL CH_4 (MT CO_2e/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 730.1027485 (MT CO_2e/yr)

BSL N_2O (MT N_2O/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 2.4500092 (MT N_2O/yr)

BSL N_2O (MT CO_2e/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 668.8525179 (MT CO_2e/yr)

BSL GHG (MT CO_2e/yr) = 1,299,974.8938327 (MT CO_2e/yr) + 730.1027485 (MT CO_2e/yr) + 668.8525179 (MT CO_2e/yr) = 1,301,373.8490991 (MT CO_2e/yr)

PRJ 100%-NG CO_2 (MT CO_2/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) = 1,299,974.8938327 (MT CO_2/yr)

PRJ 100%-NG CO_2 (MT CO_2e/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 1,299,974.8938327 (MT CO_2e/yr)

PRJ 100%-NG CH_4 (MT CH_4/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 24.5000922 (MT CH_4/yr)

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

10/14/2024

PRJ 100%-NG CH4 (MT CO2e/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 730.1027485 (MT CO2e/yr)

PRJ 100%-NG N2O (MT N2O/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 2.4500092 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 24,500,092.2320522 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 668.8525179 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 1,299,974.8938327 (MT CO2e/yr) + 730.1027485 (MT CO2e/yr) + 668.8525179 (MT CO2e/yr) = 1,301,373.8490991 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 0.0 (MMBtu/yr) x 0.0528467 (MT CO2/MMBtu) = 0.0 (MT CO2/yr)

PRJ Blend-NG CO2 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0528467 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 0.0 (MT CO2e/yr)

PRJ Blend-NG CH4 (MT CH4/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0 (MT CH4/yr)

PRJ Blend-NG CH4 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.0 (MT CO2e/yr)

PRJ Blend-NG N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

PRJ Blend-NG N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

PRJ Blend-NG GHG (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 0.0 (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

PRJ Blend-H2 N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

PRJ 100%-H2 N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.0000007 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

PRJ 100%-H2 N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0000007 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2e/yr) = 1,299,974.8938327 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 1,299,974.8938327 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = 730.1027485 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 730.1027485 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 668.8525179 (MT CO2e/yr) = 668.8525179 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = 1,299,974.8938327 (MT CO2e/yr) ÷ 1.0 (MT CO2e/MT CO2) = 1,299,974.8938327 (MT CO2/yr)

PRJ Overall CH4 (MT CH4/yr) = 730.1027485 (MT CO2e/yr) ÷ 29.8 (MT CO2e/MT CH4) = 24.5000922 (MT CH4/yr)

PRJ Overall N2O (MT N2O/yr) = 668.8525179 (MT CO2e/yr) ÷ 273.0 (MT CO2e/MT N2O) = 2.4500092 (MT N2O/yr)

Sample Emission Calculation

5-SoCal_Refineries (MidModerate_ECGeneral) 2035_H2-NG

10/14/2024

PRJ Overall GHG (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 1,301,373.8490991 (MT CO_2e/yr) = 1,301,373.8490991 (MT CO_2e/yr)

Displaced CO2 (MT CO_2/yr) = 0.0 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) = 0.0 (MT CO_2/yr)

Displaced CO2 (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 0.0 (MT CO_2e/yr)

Displaced CH4 (MT CH_4/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 0.0 (MT CH_4/yr)

Displaced CH4 (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 0.0 (MT CO_2e/yr)

Displaced N2O (MT N_2O/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 0.0 (MT N_2O/yr)

Displaced N2O (MT CO_2e/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 0.0 (MT CO_2e/yr)

Displaced GHG (MT CO_2e/yr) = 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) + 0.0 (MT CO_2e/yr) = 0.0 (MT COe/yr)

Sample Emission Calculation

18-SoCal_FoodBeverage (MidModerate_ECOvens) 2035_H2-NG

10/15/2024

Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption (MMBtu/yr) x Equip. Throughput Fraction (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate) (MMBtu/yr) - PRJ Overall H2 Heat Rate) (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = NG CH4 Ef (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Sample Emission Calculation

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BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

Sample Emission Calculation

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PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ % Overall H2 as Blend (scf/100-scf) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

Sample Emission Calculation

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O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Industrial GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	0.06	MMBtu/100-MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5247
PRJ H2 Demand	5,042,861.11	MMBtu/yr	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5248
PRJ % Overall H2 as Blend	60.00	scf/100-scf	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5249
Blend % H2	16.33	scf/100-scf	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5250
Blend % NG	75.00	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	4.12	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	95.88	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	10.03	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blend % NG (Heat)	89.97	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) /

Sample Emission Calculation

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Parameter	Value	Units	Resource
			(%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	2,864,368.23	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html

Sample Emission Calculation

18-SoCal_FoodBeverage (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	24,029.74	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calc

Sample Emission Calculation

18-SoCal_FoodBeverage (MidModerate_ECOvens) 2035_H2-NG

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Parameter	Value	Units	Resource
			ulation%20Sheets%20for%20Import/ EQ%20Molar%20Volume.xlsm
BSL NG Vol	2,950,412,188.74	scf/yr	Calculated Below
PRJ H2 Vol	1,560,113,415.89	scf/yr	Calculated Below
PRJ NG Vol	2,428,844,860.49	scf/yr	Calculated Below
BSL NG Consumption	21,673,963.65	MMBtu/yr	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5251
BSL Overall Heat Rate	3,009,420.43	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	3,009,420.43	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	255,919.98	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	276,078.70	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	531,998.67	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	2,477,421.76	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where

Sample Emission Calculation

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Parameter	Value	Units	Resource
			default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	2,477,421.76	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.049	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,435.78	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	19.00	scf/100-scf	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5252
O2 Correction	3.54	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.03	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5254
NG CH4 EF	0.000001	MT CH4/MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5255

Sample Emission Calculation

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Parameter	Value	Units	Resource
NG N2O EF	0.0000001	MT N2O/MMBtu	ALP1_GHG_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 2. Data_Prep_Power, Cell AV5256
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.000000994	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.000000099	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000022	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000030	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	159,679.85	MT CO2e/yr	Calculated Below
BSL CH4	89.68	MT CO2e/yr	Calculated Below
BSL N2O	82.16	MT CO2e/yr	Calculated Below
Displaced CO2	28,227.85	MT CO2e/yr	Calculated Below
Displaced CH4	15.85	MT CO2e/yr	Calculated Below
Displaced N2O	14.52	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	0.00	MT CO2e/yr	Calculated Below

Sample Emission Calculation

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Parameter	Value	Units	Resource
PRJ 100%-NG GHG	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG CO2	130,655.45	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	73.38	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	67.22	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	130,796.05	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	227.43	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	153.25	MT CO2e/yr	Calculated Below
PRJ Overall CO2	130,655.45	MT CO2e/yr	Calculated Below
PRJ Overall CH4	73.38	MT CO2e/yr	Calculated Below
PRJ Overall N2O	447.91	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 21,673,963.6459872 (MMBtu/yr) x 0.0574364 (MMBtu/100-MMBtu) = 12,448.7490764 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 21,673,963.6459872 (MMBtu/yr) x 0.0574364 (MMBtu/100-MMBtu) = 12,448.7490764 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 5,042,861.1130068 (MMBtu/yr) x 0.0574364 (MMBtu/100-MMBtu) = 2,896.4389554 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 12,448.7490764 (MMBtu/yr) - 2,896.4389554 (MMBtu/yr) = 9,552.3101209 (MMBtu/yr)

BSL NG Vol (scf/yr) = 12,448.7490764 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 12,204,655.9572275 (scf/yr)

PRJ NG Vol (scf/yr) = 9,552.3101209 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 9,365,009.922492 (scf/yr)

Sample Emission Calculation

18-SoCal_FoodBeverage (MidModerate_ECOvens) 2035_H2-NG

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PRJ H2 Vol (scf/yr) = 2,896.4389554 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 8,493,955.8810271 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 6.1265945 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 93.8734055 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,542.4406566 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 2.4526217 (lb/100-lb) x 60,920.0 (Btu/lb) + 97.5473783 (lb/100-lb) x 22,446.0 (Btu/lb) = 23,389.6216773 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.05306 (MT CO2/MMBtu) x 1.0155167 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,542.4406566 (scf/MMBtu) = 0.0528467 (MT CO2/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = 0.000001 (MT CH4/MMBtu) x 1.0155167 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,542.4406566 (scf/MMBtu) = 0.000001 (MT CH4/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = 0.0000001 (MT N2O/MMBtu) x 1.0155167 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,542.4406566 (scf/MMBtu) = 0.0000001 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 11.0 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000068 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.0155167 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,542.4406566 (scf/MMBtu) x 11.0 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000096 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 12,448.7490764 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 660.530626 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 12,448.7490764 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 660.530626 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 12,448.7490764 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0124487 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 12,448.7490764 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.3709727 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 12,448.7490764 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0012449 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 12,448.7490764 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.3398508 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 660.530626 (MT CO2e/yr) + 0.3709727 (MT CO2e/yr) + 0.3398508 (MT CO2e/yr) = 661.2414496 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 0.0 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 0.0 (MT CO2/yr)

PRJ 100%-NG CO2 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 0.0 (MT CO2e/yr)

PRJ 100%-NG CH4 (MT CH4/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0 (MT CH4/yr)

PRJ 100%-NG CH4 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.0 (MT CO2e/yr)

Sample Emission Calculation

18-SoCal_FoodBeverage (MidModerate_ECOvens) 2035_H2-NG

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PRJ 100%-NG N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 0.0 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 9,552.3101209 (MMBtu/yr) x 0.0528467 (MT CO2/MMBtu) = 504.8083503 (MT CO2/yr)

PRJ Blend-NG CO2 (MT CO2e/yr) = 9,552.3101209 (MMBtu/yr) x 0.0528467 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 504.8083503 (MT CO2e/yr)

PRJ Blend-NG CH4 (MT CH4/yr) = 9,552.3101209 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0095139 (MT CH4/yr)

PRJ Blend-NG CH4 (MT CO2e/yr) = 9,552.3101209 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.2835147 (MT CO2e/yr)

PRJ Blend-NG N2O (MT N2O/yr) = 9,552.3101209 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0009514 (MT N2O/yr)

PRJ Blend-NG N2O (MT CO2e/yr) = 9,552.3101209 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.2597299 (MT CO2e/yr)

PRJ Blend-NG GHG (MT CO2e/yr) = 504.8083503 (MT CO2e/yr) + 0.2835147 (MT CO2e/yr) + 0.2597299 (MT CO2e/yr) = 505.3515949 (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = 623.4260988 (MMBtu/yr) x 0.0000096 (MT N2O/MMBtu) = 0.0059781 (MT N2O/yr)

PRJ Blend-H2 N2O (MT CO2e/yr) = 623.4260988 (MMBtu/yr) x 0.0000096 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 1.6320324 (MT CO2e/yr)

PRJ 100%-H2 N2O (MT N2O/yr) = 2,273.0128566 (MMBtu/yr) x 0.0000068 (MT N2O/MMBtu) = 0.0154821 (MT N2O/yr)

PRJ 100%-H2 N2O (MT CO2e/yr) = 2,273.0128566 (MMBtu/yr) x 0.0000068 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 4.2266108 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 504.8083503 (MT CO2e/yr) = 504.8083503 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.2835147 (MT CO2e/yr) = 0.2835147 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = 1.6320324 (MT CO2e/yr) + 4.2266108 (MT CO2e/yr) + 0.2597299 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 6.1183731 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = 504.8083503 (MT CO2e/yr) ÷ 1.0 (MT CO2e/MT CO2) = 504.8083503 (MT CO2/yr)

PRJ Overall CH4 (MT CH4/yr) = 0.2835147 (MT CO2e/yr) ÷ 29.8 (MT CO2e/MT CH4) = 0.0095139 (MT CH4/yr)

PRJ Overall N2O (MT N2O/yr) = 6.1183731 (MT CO2e/yr) ÷ 273.0 (MT CO2e/MT N2O) = 0.0224116 (MT N2O/yr)

PRJ Overall GHG (MT CO2e/yr) = 1.6320324 (MT CO2e/yr) + 4.2266108 (MT CO2e/yr) + 505.3515949 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 511.2102381 (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = 2,896.4389554 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 153.685051 (MT CO2/yr)

Sample Emission Calculation

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Displaced CO2 (MT CO2e/yr) = 2,896.4389554 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 153.685051 (MT CO2e/yr)

Displaced CH4 (MT CH4/yr) = 2,896.4389554 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0028964 (MT CH4/yr)

Displaced CH4 (MT CO2e/yr) = 2,896.4389554 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.0863139 (MT CO2e/yr)

Displaced N2O (MT N2O/yr) = 2,896.4389554 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0002896 (MT N2O/yr)

Displaced N2O (MT CO2e/yr) = 2,896.4389554 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0790728 (MT CO2e/yr)

Displaced GHG (MT CO2e/yr) = 153.685051 (MT CO2e/yr) + 0.0863139 (MT CO2e/yr) + 0.0790728 (MT CO2e/yr) = 153.8504376 (MT COe/yr)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption (MMBtu/yr) x Equip. Throughput Fraction (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate) (MMBtu/yr) - PRJ Overall H2 Heat Rate) (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = NG CH4 Ef (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ % Overall H2 as Blend (scf/100-scf) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Industrial GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	5.79	MMBtu/100-MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9444
PRJ H2 Demand	1,801,052.01	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9445
PRJ % Overall H2 as Blend	60.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9446
Blend % H2	56.83	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9447
Blend % NG	83.67	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	2.45	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	97.55	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	6.13	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blend % NG (Heat)	93.87	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) /

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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Parameter	Value	Units	Resource
			(%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	26,628.03	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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Parameter	Value	Units	Resource
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	23,389.62	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calc

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

10/15/2024

Parameter	Value	Units	Resource
			ulation%20Sheets%20for%20Import/ EQ%20Molar%20Volume.xlsm
BSL NG Vol	12,204,655.96	scf/yr	Calculated Below
PRJ H2 Vol	8,493,955.88	scf/yr	Calculated Below
PRJ NG Vol	9,365,009.92	scf/yr	Calculated Below
BSL NG Consumption	8,308,620.78	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep _SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9448
BSL Overall Heat Rate	12,448.75	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	12,448.75	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	2,273.01	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	623.43	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	2,896.44	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	9,552.31	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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Parameter	Value	Units	Resource
			default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	9,552.31	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.049	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,542.44	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	15.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9449
O2 Correction	11.00	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.02	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9451
NG CH4 EF	0.000001	MT CH4/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9452

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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Parameter	Value	Units	Resource
NG N2O EF	0.0000001	MT N2O/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT9453
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.000000996	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.000000100	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000068	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000096	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCCAR6
BSL CO2	660.53	MT CO2e/yr	Calculated Below
BSL CH4	0.37	MT CO2e/yr	Calculated Below
BSL N2O	0.34	MT CO2e/yr	Calculated Below
Displaced CO2	153.69	MT CO2e/yr	Calculated Below
Displaced CH4	0.09	MT CO2e/yr	Calculated Below
Displaced N2O	0.08	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	0.00	MT CO2e/yr	Calculated Below

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

10/15/2024

Parameter	Value	Units	Resource
PRJ 100%-NG GHG	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG CO2	504.81	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	0.28	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	0.26	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	505.35	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	1.63	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	4.23	MT CO2e/yr	Calculated Below
PRJ Overall CO2	504.81	MT CO2e/yr	Calculated Below
PRJ Overall CH4	0.28	MT CO2e/yr	Calculated Below
PRJ Overall N2O	6.12	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 8,308,620.7816112 (MMBtu/yr) x 5.7870566 (MMBtu/100-MMBtu) = 480,824.5845933 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 8,308,620.7816112 (MMBtu/yr) x 5.7870566 (MMBtu/100-MMBtu) = 480,824.5845933 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 1,801,052.0103696 (MMBtu/yr) x 5.7870566 (MMBtu/100-MMBtu) = 104,227.8986464 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 480,824.5845933 (MMBtu/yr) - 104,227.8986464 (MMBtu/yr) = 376,596.6859469 (MMBtu/yr)

BSL NG Vol (scf/yr) = 480,824.5845933 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 471,396,651.562031 (scf/yr)

PRJ NG Vol (scf/yr) = 376,596.6859469 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 369,212,437.202849 (scf/yr)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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PRJ H2 Vol (scf/yr) = 104,227.8986464 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 305,653,661.719548 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 30.5631852 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 69.4368148 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 7,874.1119359 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 14.4984396 (lb/100-lb) x 60,920.0 (Btu/lb) + 85.5015604 (lb/100-lb) x 22,446.0 (Btu/lb) = 28,024.1296537 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.05306 (MT CO2/MMBtu) x 1.0850333 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 7,874.1119359 (scf/MMBtu) = 0.0520468 (MT CO2/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = 0.000001 (MT CH4/MMBtu) x 1.0850333 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 7,874.1119359 (scf/MMBtu) = 0.000001 (MT CH4/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = 0.0000001 (MT N2O/MMBtu) x 1.0850333 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 7,874.1119359 (scf/MMBtu) = 0.0000001 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.0850333 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 7,874.1119359 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000027 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 480,824.5845933 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 25,512.5524585 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 480,824.5845933 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 25,512.5524585 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 480,824.5845933 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.4808246 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 480,824.5845933 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 14.3285726 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 480,824.5845933 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0480825 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 480,824.5845933 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 13.1265112 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 25,512.5524585 (MT CO2e/yr) + 14.3285726 (MT CO2e/yr) + 13.1265112 (MT CO2e/yr) = 25,540.0075423 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 234,518.8249151 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 12,443.56885 (MT CO2/yr)

PRJ 100%-NG CO2 (MT CO2e/yr) = 234,518.8249151 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 12,443.56885 (MT CO2e/yr)

PRJ 100%-NG CH4 (MT CH4/yr) = 234,518.8249151 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.2345188 (MT CH4/yr)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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PRJ 100%-NG CH4 (MT CO2e/yr) = 234,518.8249151 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 6.988661 (MT CO2e/yr)

PRJ 100%-NG N2O (MT N2O/yr) = 234,518.8249151 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0234519 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 234,518.8249151 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 6.4023639 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 12,443.56885 (MT CO2e/yr) + 6.988661 (MT CO2e/yr) + 6.4023639 (MT CO2e/yr) = 12,456.9598749 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 142,077.8610318 (MMBtu/yr) x 0.0520468 (MT CO2/MMBtu) = 7,394.693291 (MT CO2/yr)

PRJ Blend-NG CO2 (MT CO2e/yr) = 142,077.8610318 (MMBtu/yr) x 0.0520468 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 7,394.693291 (MT CO2e/yr)

PRJ Blend-NG CH4 (MT CH4/yr) = 142,077.8610318 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.1393647 (MT CH4/yr)

PRJ Blend-NG CH4 (MT CO2e/yr) = 142,077.8610318 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 4.1530694 (MT CO2e/yr)

PRJ Blend-NG N2O (MT N2O/yr) = 142,077.8610318 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0139365 (MT N2O/yr)

PRJ Blend-NG N2O (MT CO2e/yr) = 142,077.8610318 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 3.8046575 (MT CO2e/yr)

PRJ Blend-NG GHG (MT CO2e/yr) = 7,394.693291 (MT CO2e/yr) + 4.1530694 (MT CO2e/yr) + 3.8046575 (MT CO2e/yr) = 7,402.6510178 (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = 62,536.7391878 (MMBtu/yr) x 0.0000027 (MT N2O/MMBtu) = 0.1666025 (MT N2O/yr)

PRJ Blend-H2 N2O (MT CO2e/yr) = 62,536.7391878 (MMBtu/yr) x 0.0000027 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 45.4824871 (MT CO2e/yr)

PRJ 100%-H2 N2O (MT N2O/yr) = 41,691.1594585 (MMBtu/yr) x 0.0000022 (MT N2O/MMBtu) = 0.0914478 (MT N2O/yr)

PRJ 100%-H2 N2O (MT CO2e/yr) = 41,691.1594585 (MMBtu/yr) x 0.0000022 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 24.9652506 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2e/yr) = 12,443.56885 (MT CO2e/yr) + 7,394.693291 (MT CO2e/yr) = 19,838.262141 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = 6.988661 (MT CO2e/yr) + 4.1530694 (MT CO2e/yr) = 11.1417303 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = 45.4824871 (MT CO2e/yr) + 24.9652506 (MT CO2e/yr) + 3.8046575 (MT CO2e/yr) + 6.4023639 (MT CO2e/yr) = 80.6547591 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = 19,838.262141 (MT CO2e/yr) ÷ 1.0 (MT CO2e/MT CO2) = 19,838.262141 (MT CO2/yr)

PRJ Overall CH4 (MT CH4/yr) = 11.1417303 (MT CO2e/yr) ÷ 29.8 (MT CO2e/MT CH4) = 0.3738836 (MT CH4/yr)

Sample Emission Calculation

32-SoCal_Metals (MidModerate_ICTurbines) 2035_H2-NG

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PRJ Overall N_2O (MT N_2O/yr) = 80.6547591 (MT CO_2e/yr) ÷ 273.0 (MT CO_2e/MT N_2O) = 0.2954387 (MT N_2O/yr)

PRJ Overall GHG (MT CO_2e/yr) = 45.4824871 (MT CO_2e/yr) + 24.9652506 (MT CO_2e/yr) + 7,402.6510178 (MT CO_2e/yr) + 12,456.9598749 (MT CO_2e/yr) = 19,930.0586304 (MT CO_2e/yr)

Displaced CO_2 (MT CO_2/yr) = 104,227.8986464 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) = 5,530.3323022 (MT CO_2/yr)

Displaced CO_2 (MT CO_2e/yr) = 104,227.8986464 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 5,530.3323022 (MT CO_2e/yr)

Displaced CH_4 (MT CH_4/yr) = 104,227.8986464 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 0.1042279 (MT CH_4/yr)

Displaced CH_4 (MT CO_2e/yr) = 104,227.8986464 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 3.1059914 (MT CO_2e/yr)

Displaced N_2O (MT N_2O/yr) = 104,227.8986464 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 0.0104228 (MT N_2O/yr)

Displaced N_2O (MT CO_2e/yr) = 104,227.8986464 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 2.8454216 (MT CO_2e/yr)

Displaced GHG (MT CO_2e/yr) = 5,530.3323022 (MT CO_2e/yr) + 3.1059914 (MT CO_2e/yr) + 2.8454216 (MT CO_2e/yr) = 5,536.2837152 (MT COe/yr)

Sample Emission Calculation

43-SoCal_StoneGlassCement (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

Emissions are calculated using the following equation(s):

BSL Overall Heat Rate (MMBtu/yr) = BSL NG Consumption (MMBtu/yr) x Equip. Throughput Fraction (MMBtu/100-MMBtu)

PRJ Overall Heat Rate (MMBtu/yr) = BSL NG Consumption) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall H2 Heat Rate (MMBtu/yr) = PRJ H2 Demand) (MMBtu/yr) x Equip. Throughput Fraction) (MMBtu/100-MMBtu)

PRJ Overall NG Heat Rate (MMBtu/yr) = PRJ Overall Heat Rate) (MMBtu/yr) - PRJ Overall H2 Heat Rate) (MMBtu/yr)

BSL NG Vol (scf/yr) = BSL Overall Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ NG Vol (scf/yr) = PRJ Overall NG Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf NG (Btu/scf)

PRJ H2 Vol (scf/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-scf H2 (Btu/scf)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

Fd Blend (scf/MMBtu) = Blend % H2 (Heat) (Btu/100-Btu) x Fd (H2 @ 68 F) (scf/MMBtu) + Blend % NG (Heat) (Btu/100-Btu) x Fd NG (scf/MMBtu)

HHV-lb Blend (Btu/lb) = Blend % H2 (Mass) (lb/100-lb) x HHV-lb H2 (Btu/lb) + Blend % NG (Mass) (lb/100-lb) x HHV-lb NG (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = NG CO2 EF (MT CO2/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = NG CH4 Ef (MT CH4/MMBtu) x Correction Blend-H2 Ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = NG N2O EF (MT N2O/MMBtu) x Correction Blend-H2 ratio (ppm/ppm) ÷ Fd NG (scf/MMBtu) x Fd Blend (scf/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Blend-H2 N2O EF (MT N2O/MMBtu) = N2O-ppm H2 (ppm) ÷ Correction Blend-H2 Ratio (ppm/ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd Blend (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

BSL CO2 (MT CO2/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

BSL CO2 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Sample Emission Calculation

43-SoCal_StoneGlassCement (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

BSL CH4 (MT CH4/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

BSL CH4 (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

BSL N2O (MT N2O/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

BSL N2O (MT CO2e/yr) = BSL Overall Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

BSL GHG (MT CO2e/yr) = BSL CO2 (MT CO2e/yr) + BSL CH4 (MT CO2e/yr) + BSL N2O (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

PRJ 100%-NG CO2 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ 100%-NG CH4 (MT CH4/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

PRJ 100%-NG CH4 (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ 100%-NG N2O (MT N2O/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

PRJ 100%-NG N2O (MT CO2e/yr) = PRJ 100%-NG Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-NG GHG (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu)

PRJ Blend-NG CO2 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

PRJ Blend-NG CH4 (MT CH4/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu)

PRJ Blend-NG CH4 (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

PRJ Blend-NG N2O (MT N2O/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu)

PRJ Blend-NG N2O (MT CO2e/yr) = PRJ Blend-NG Heat Rate (MMBtu/yr) x Blend-NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Blend-NG GHG (MT CO2e/yr) = PRJ Blend-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu)

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PRJ Blend-H2 N2O (MT CO2e/yr) = PRJ Blend-H2 Heat Rate (MMBtu/yr) x Blend-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ 100%-H2 N2O (MT N2O/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu)

PRJ 100%-H2 N2O (MT CO2e/yr) = PRJ 100%-H2 Heat Rate (MMBtu/yr) x 100%-H2 N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

PRJ Overall CO2 (MT CO2e/yr) = PRJ 100%-NG CO2 (MT CO2e/yr) + PRJ Blend-NG CO2 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = PRJ 100%-NG CH4 (MT CO2e/yr) + PRJ Blend-NG CH4 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG N2O (MT CO2e/yr) + PRJ 100%-NG N2O (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = PRJ Overall CO2 (MT CO2e/yr) ÷ GWP CO2 (MT CO2e/MT CO2)

PRJ Overall CH4 (MT CH4/yr) = PRJ Overall CH4 (MT CO2e/yr) ÷ GWP CH4 (MT CO2e/MT CH4)

PRJ Overall N2O (MT N2O/yr) = PRJ Overall N2O (MT CO2e/yr) ÷ GWP N2O (MT CO2e/MT N2O)

PRJ Overall GHG (MT CO2e/yr) = PRJ Blend-H2 N2O (MT CO2e/yr) + PRJ 100%-H2 N2O (MT CO2e/yr) + PRJ Blend-NG GHG (MT CO2e/yr) + PRJ 100%-NG GHG (MT CO2e/yr)

Displaced CO2 (MT CO2/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu)

Displaced CO2 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CO2 EF (MT CO2/MMBtu) x GWP CO2 (MT CO2e/MT CO2)

Displaced CH4 (MT CH4/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu)

Displaced CH4 (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG CH4 EF (MT CH4/MMBtu) x GWP CH4 (MT CO2e/MT CH4)

Displaced N2O (MT N2O/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu)

Displaced N2O (MT CO2e/yr) = PRJ Overall H2 Heat Rate (MMBtu/yr) x NG N2O EF (MT N2O/MMBtu) x GWP N2O (MT CO2e/MT N2O)

Displaced GHG (MT CO2e/yr) = Displaced CO2 (MT CO2e/yr) + Displaced CH4 (MT CO2e/yr) + Displaced N2O (MT CO2e/yr)

Where:

Equip. Throughput Fraction (MMBtu/100-MMBtu) = Percentage of sector-level fuel consumed by equipment category (turbine, recip engine, gen EC, heater)

PRJ H2 Demand (MMBtu/yr) = Annual hydrogen demand (sector-wide)

PRJ % Overall H2 as Blend (scf/100-scf) = Percent of annual hydrogen demand combusted as a blended fuel (sector-wide)

Blend % H2 (scf/100-scf) = Proportion of hydrogen to natural gas in blended fuel (sector-wide)

BSL NG Consumption (MMBtu/yr) = Baseline fuel consumption, natural gas (sector-wide)

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O2 Percent (scf/100-scf) = Combustion oxygen percent (for equipment category)

NG CO2 EF (MT CO2/MMBtu) = CO2 emission factor for natural gas (for equipment category)

NG CH4 EF (MT CH4/MMBtu) = CH4 emission factor for natural gas (for equipment category)

NG N2O EF (MT N2O/MMBtu = N2O emission factor for natural gas (for equipment category)

Using the following parameter values:

Table 1. Industrial GHG Calc Calculation Inputs

Parameter	Value	Units	Resource
Equip. Throughput Fraction	12.78	MMBtu/100-MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12744
PRJ H2 Demand	4,163,932.52	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12745
PRJ % Overall H2 as Blend	60.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12746
Blend % H2	25.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12747
Blend % NG	75.00	scf/100-scf	NG makeup based on % H2 selection
Blend % H2 (Mass)	4.12	lb/100-lb	Percentage of H2 in blend by mass. (%-vol H2 * density-H2) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % NG (Mass)	95.88	lb/100-lb	Percentage of NG in blend by mass. (%-vol NG * density-NG) / (%-vol NG * density-NG + %-vol H2 * density-H2)
Blend % H2 (Heat)	10.03	Btu/100-Btu	Percentage of H2 in blend by heat content. (%-vol H2 * HHV-scf-H2) / (%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blend % NG (Heat)	89.97	Btu/100-Btu	Percentage of NG in blend by heat content. (%-vol NG * HHV-scf-NG) /

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Parameter	Value	Units	Resource
			(%-vol NG * HHV-scf-NG + %-vol H2 * HHV-scf-H2)
Blending Check Factor	2,864,368.23	MMBtu/yr	Check factor for blending. This is the PRJ MMBtu of blended natural gas, given default (user input) blending assumptions. If this value exceeds overall PRJ natural gas demand, secondary blending assumptions must be made to satisfy energy balance. Based on the following assumptions: "Blend % H2" = Volume_{Blended-H2} /(Volume_{Blended-H2} + Volume_{Blended-NG}) Volume_{Blended-H2} = MMBtu_{Blended-H2} * 10^6 (Btu/MMBtu) /HHV_{Blended-H2} (Btu/scf) Volume_{Blended-NG} = MMBtu_{Blended-NG} * 10^6 (Btu/MMBtu) /HHV_{Blended-NG} (Btu/scf) The above equations can be used to solve for MMBtu_{Blended-NG} in terms of MMBtu_{Blended-H2}. This value can be compared to overall MMBtu of PRJ natural gas.
HHV-scf H2	341.00	Btu/scf	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-scf NG	1,020.00	Btu/scf	https://www3.epa.gov/ttnchie1/ap42/ch01/final/c01s04.pdf
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html

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Parameter	Value	Units	Resource
HHV-lb NG	22,446.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
HHV-lb Blend	24,029.74	Btu/lb	Calculated Below
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (kg-MT)	1,000.00	kg/MT	
Conv (g-kg)	1,000.00	g/kg	
Conv (Conc-ppm)	1,000,000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (lb-ton)	2,000.00	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
MW (H2)	2.02	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Hydrogen
MW (NG)	19.00	lb/pmole	https://www.engineeringtoolbox.com/molecular-weight-gas-vapor-d_1156.html
MW (N2O)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Nitrous-Oxide
MW (Air)	28.96	lb/pmole	https://www.engineeringtoolbox.com/air-composition-d_212.html
MW (CO2)	44.01	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/carbon-dioxide
MW (CH4)	16.04	lb/pmole	https://pubchem.ncbi.nlm.nih.gov/compound/Methane
Molar Volume @ 68 F	385.22	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calc

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Parameter	Value	Units	Resource
			ulation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
BSL NG Vol	2,950,412,188.74	scf/yr	Calculated Below
PRJ H2 Vol	1,560,113,415.89	scf/yr	Calculated Below
PRJ NG Vol	2,428,844,860.49	scf/yr	Calculated Below
BSL NG Consumption	23,554,614.35	MMBtu/yr	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12748
BSL Overall Heat Rate	3,009,420.43	MMBtu/yr	Calculated Below
PRJ Overall Heat Rate	3,009,420.43	MMBtu/yr	Calculated Below
PRJ 100%-H2 Heat Rate	255,919.98	MMBtu/yr	Calculated in cell
PRJ Blend-H2 Heat Rate	276,078.70	MMBtu/yr	Conditional formula based on "Blending Check Factor". Either based on default "PRJ % Overall H2 as Blend" or, where Blending Check Factor exceeds PRJ Overall NG, the amount of H2 required to blend with the entirety of Overall PRJ NG. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall H2 Heat Rate	531,998.67	MMBtu/yr	Calculated Below
PRJ 100%-NG Heat Rate	0.00	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to zero. In other instances, it is the difference between overall natural gas volume and blended natural gas volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Blend-NG Heat Rate	2,477,421.76	MMBtu/yr	Conditional formula based on "Blending Check Factor". Where

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Parameter	Value	Units	Resource
			default blending assumptions result in blended natural gas volume that exceeds overall natural gas volume, this value is set to the overall natural gas demand. In other instances, it is the volume of natural gas required to blend with the blended hydrogen volume. This formula is conditional to satisfy energy balance requirements where default blending assumptions are inadequate.
PRJ Overall NG Heat Rate	2,477,421.76	MMBtu/yr	Calculated Below
Fd (H2 @ 68 F)	5,975.049	scf/MMBtu	Calculated Below
Fd NG	8,710.00	scf/MMBtu	https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd Blend	8,435.78	scf/MMBtu	Calculated Below
Specific Weight H2	364.00	scf/lb	Jahnke, 1993. Appendix A.
O2 Percent	15.00	scf/100-scf	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12749
O2 Correction	3.54	scf/scf	Equation: 20.9 /(20.9 - O2 Percent)
Correction 100%-H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
Correction Blend-H2 Ratio	1.03	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
NG CO2 EF	0.05	MT CO2/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12751
NG CH4 EF	0.000001	MT CH4/MMBtu	ALP1_GHG_IndustPow_3_DataPrep_SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12752

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Parameter	Value	Units	Resource
NG N2O EF	0.0000001	MT N2O/MMBtu	ALP1_GHG_IndustPow_3_DataPrep _SoCalGas.xlsx, 1. Data_Prep_Industrial, Cell AT12753
Blend-NG CO2 EF	0.05	MT CO2/MMBtu	Calculated Below
Blend-NG CH4 EF	0.000000994	MT CH4/MMBtu	Calculated Below
Blend-NG N2O EF	0.000000099	MT N2O/MMBtu	Calculated Below
N2O-ppm H2	2.00	ppm	See "GHG_sample_calcs.xlsx". Value from Duan et al., 2017. Already-conservative value of 1ppm x 2 (factor of safety) = 2 ppm.
100%-H2 N2O EF	0.0000022	MT N2O/MMBtu	Calculated Below
Blend-H2 N2O EF	0.0000030	MT N2O/MMBtu	Calculated Below
GWP CO2	1.00	MT CO2e/MT CO2	IPCC AR6
GWP CH4	29.80	MT CO2e/MT CH4	IPCC AR6
GWP N2O	273.00	MT CO2e/MT N2O	IPCC AR6
BSL CO2	159,679.85	MT CO2e/yr	Calculated Below
BSL CH4	89.68	MT CO2e/yr	Calculated Below
BSL N2O	82.16	MT CO2e/yr	Calculated Below
Displaced CO2	28,227.85	MT CO2e/yr	Calculated Below
Displaced CH4	15.85	MT CO2e/yr	Calculated Below
Displaced N2O	14.52	MT CO2e/yr	Calculated Below
PRJ 100%-NG CO2	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG CH4	0.00	MT CO2e/yr	Calculated Below
PRJ 100%-NG N2O	0.00	MT CO2e/yr	Calculated Below

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Parameter	Value	Units	Resource
PRJ 100%-NG GHG	0.00	MT CO2e/yr	Calculated Below
PRJ Blend-NG CO2	130,655.45	MT CO2e/yr	Calculated Below
PRJ Blend-NG CH4	73.38	MT CO2e/yr	Calculated Below
PRJ Blend-NG N2O	67.22	MT CO2e/yr	Calculated Below
PRJ Blend-NG GHG	130,796.05	MT CO2e/yr	Calculated Below
PRJ Blend-H2 N2O	227.43	MT CO2e/yr	Calculated Below
PRJ 100%-H2 N2O	153.25	MT CO2e/yr	Calculated Below
PRJ Overall CO2	130,655.45	MT CO2e/yr	Calculated Below
PRJ Overall CH4	73.38	MT CO2e/yr	Calculated Below
PRJ Overall N2O	447.91	MT CO2e/yr	Calculated Below
CO2 Density (@ 68F)	0.05	kg/scf	https://www.engineeringtoolbox.com/gas-density-d_158.html#gsc.tab=0
H2 Density (@ 68F)	0.002	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf
NG Density (@ 68F)	0.018	kg/scf	https://www1.eere.energy.gov/hydrogenandfuelcells/tech_validation/pdfs/fcm01r0.pdf

BSL Overall Heat Rate (MMBtu/yr) = 23,554,614.3469695 (MMBtu/yr) x 12.776352 (MMBtu/100-MMBtu) = 3,009,420.4325173 (MMBtu/yr)

PRJ Overall Heat Rate (MMBtu/yr) = 23,554,614.3469695 (MMBtu/yr) x 12.776352 (MMBtu/100-MMBtu) = 3,009,420.4325173 (MMBtu/yr)

PRJ Overall H2 Heat Rate (MMBtu/yr) = 4,163,932.5243557 (MMBtu/yr) x 12.776352 (MMBtu/100-MMBtu) = 531,998.6748173 (MMBtu/yr)

PRJ Overall NG Heat Rate (MMBtu/yr) = 3,009,420.4325173 (MMBtu/yr) - 531,998.6748173 (MMBtu/yr) = 2,477,421.7577 (MMBtu/yr)

BSL NG Vol (scf/yr) = 3,009,420.4325173 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 2,950,412,188.74241 (scf/yr)

PRJ NG Vol (scf/yr) = 2,477,421.7577 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 1,020.0 (Btu/scf) = 2,428,844,860.49021 (scf/yr)

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PRJ H2 Vol (scf/yr) = 531,998.6748173 (MMBtu/yr) x 1,000,000.0 (Btu/MMBtu) ÷ 341.0 (Btu/scf) = 1,560,113,415.88637 (scf/yr)

Fd (H2 @ 68 F) (scf/MMBtu) = 364.0 (scf/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 60,920.0 (Btu/lb) = 5,975.0492449 (scf/MMBtu)

Fd Blend (scf/MMBtu) = 10.0264628 (Btu/100-Btu) x 5,975.0492449 (scf/MMBtu) + 89.9735372 (Btu/100-Btu) x 8,710.0 (scf/MMBtu) = 8,435.7811798 (scf/MMBtu)

HHV-lb Blend (Btu/lb) = 4.1163829 (lb/100-lb) x 60,920.0 (Btu/lb) + 95.8836171 (lb/100-lb) x 22,446.0 (Btu/lb) = 24,029.7371466 (Btu/lb)

Blend-NG CO2 EF (MT CO2/MMBtu) = 0.05306 (MT CO2/MMBtu) x 1.02625 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,435.7811798 (scf/MMBtu) = 0.0527385 (MT CO2/MMBtu)

Blend-NG CH4 (MT CH4/MMBtu) = 0.000001 (MT CH4/MMBtu) x 1.02625 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,435.7811798 (scf/MMBtu) = 0.000001 (MT CH4/MMBtu)

Blend-NG N2O (MT N2O/MMBtu) = 0.0000001 (MT N2O/MMBtu) x 1.02625 (ppm/ppm) ÷ 8,710.0 (scf/MMBtu) x 8,435.7811798 (scf/MMBtu) = 0.0000001 (MT N2O/MMBtu)

100%-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Blend-H2 N2O EF (MT N2O/MMBtu) = 2.0 (ppm) ÷ 1.02625 (ppm/ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.013 (lb/pmole) x 8,435.7811798 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.000003 (MT/MMBtu)

BSL CO2 (MT CO2/yr) = 3,009,420.4325173 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 159,679.8481494 (MT CO2/yr)

BSL CO2 (MT CO2e/yr) = 3,009,420.4325173 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 159,679.8481494 (MT CO2e/yr)

BSL CH4 (MT CH4/yr) = 3,009,420.4325173 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 3.0094204 (MT CH4/yr)

BSL CH4 (MT CO2e/yr) = 3,009,420.4325173 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 89.6807289 (MT CO2e/yr)

BSL N2O (MT N2O/yr) = 3,009,420.4325173 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.300942 (MT N2O/yr)

BSL N2O (MT CO2e/yr) = 3,009,420.4325173 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 82.1571778 (MT CO2e/yr)

BSL GHG (MT CO2e/yr) = 159,679.8481494 (MT CO2e/yr) + 89.6807289 (MT CO2e/yr) + 82.1571778 (MT CO2e/yr) = 159,851.6860561 (MT CO2e/yr)

PRJ 100%-NG CO2 (MT CO2/yr) = 0.0 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) = 0.0 (MT CO2/yr)

PRJ 100%-NG CO2 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.05306 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 0.0 (MT CO2e/yr)

PRJ 100%-NG CH4 (MT CH4/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 0.0 (MT CH4/yr)

PRJ 100%-NG CH4 (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 0.0 (MT CO2e/yr)

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PRJ 100%-NG N2O (MT N2O/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.0 (MT N2O/yr)

PRJ 100%-NG N2O (MT CO2e/yr) = 0.0 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 0.0 (MT CO2e/yr)

PRJ 100%-NG GHG (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 0.0 (MT CO2e/yr)

PRJ Blend-NG CO2 (MT CO2/yr) = 2,477,421.7577 (MMBtu/yr) x 0.0527385 (MT CO2/MMBtu) = 130,655.445169 (MT CO2/yr)

PRJ Blend-NG CO2 (MT CO2e/yr) = 2,477,421.7577 (MMBtu/yr) x 0.0527385 (MT CO2/MMBtu) x 1.0 (MT CO2e/MT CO2) = 130,655.445169 (MT CO2e/yr)

PRJ Blend-NG CH4 (MT CH4/yr) = 2,477,421.7577 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) = 2.4624094 (MT CH4/yr)

PRJ Blend-NG CH4 (MT CO2e/yr) = 2,477,421.7577 (MMBtu/yr) x 0.000001 (MT CH4/MMBtu) x 29.8 (MT CO2e/MT CH4) = 73.3798015 (MT CO2e/yr)

PRJ Blend-NG N2O (MT N2O/yr) = 2,477,421.7577 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) = 0.2462409 (MT N2O/yr)

PRJ Blend-NG N2O (MT CO2e/yr) = 2,477,421.7577 (MMBtu/yr) x 0.0000001 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 67.2237779 (MT CO2e/yr)

PRJ Blend-NG GHG (MT CO2e/yr) = 130,655.445169 (MT CO2e/yr) + 73.3798015 (MT CO2e/yr) + 67.2237779 (MT CO2e/yr) = 130,796.0487484 (MT CO2e/yr)

PRJ Blend-H2 N2O (MT N2O/yr) = 276,078.6991424 (MMBtu/yr) x 0.000003 (MT N2O/MMBtu) = 0.8330918 (MT N2O/yr)

PRJ Blend-H2 N2O (MT CO2e/yr) = 276,078.6991424 (MMBtu/yr) x 0.000003 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 227.4340599 (MT CO2e/yr)

PRJ 100%-H2 N2O (MT N2O/yr) = 255,919.9756749 (MMBtu/yr) x 0.0000022 (MT N2O/MMBtu) = 0.5613497 (MT N2O/yr)

PRJ 100%-H2 N2O (MT CO2e/yr) = 255,919.9756749 (MMBtu/yr) x 0.0000022 (MT N2O/MMBtu) x 273.0 (MT CO2e/MT N2O) = 153.2484685 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 130,655.445169 (MT CO2e/yr) = 130,655.445169 (MT CO2e/yr)

PRJ Overall CH4 (MT CO2e/yr) = 0.0 (MT CO2e/yr) + 73.3798015 (MT CO2e/yr) = 73.3798015 (MT CO2e/yr)

PRJ Overall N2O (MT CO2e/yr) = 227.4340599 (MT CO2e/yr) + 153.2484685 (MT CO2e/yr) + 67.2237779 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 447.9063063 (MT CO2e/yr)

PRJ Overall CO2 (MT CO2/yr) = 130,655.445169 (MT CO2e/yr) ÷ 1.0 (MT CO2e/MT CO2) = 130,655.445169 (MT CO2/yr)

PRJ Overall CH4 (MT CH4/yr) = 73.3798015 (MT CO2e/yr) ÷ 29.8 (MT CO2e/MT CH4) = 2.4624094 (MT CH4/yr)

PRJ Overall N2O (MT N2O/yr) = 447.9063063 (MT CO2e/yr) ÷ 273.0 (MT CO2e/MT N2O) = 1.6406824 (MT N2O/yr)

PRJ Overall GHG (MT CO2e/yr) = 227.4340599 (MT CO2e/yr) + 153.2484685 (MT CO2e/yr) + 130,796.0487484 (MT CO2e/yr) + 0.0 (MT CO2e/yr) = 131,176.7312767 (MT CO2e/yr)

Sample Emission Calculation

43-SoCal_StoneGlassCement (MidModerate_ICEngines) 2035_H2-NG

10/15/2024

Displaced CO_2 (MT CO_2/yr) = 531,998.6748173 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) = 28,227.8496858 (MT CO_2/yr)

Displaced CO_2 (MT CO_2e/yr) = 531,998.6748173 (MMBtu/yr) x 0.05306 (MT CO_2/MMBtu) x 1.0 (MT CO_2e/MT CO_2) = 28,227.8496858 (MT CO_2e/yr)

Displaced CH_4 (MT CH_4/yr) = 531,998.6748173 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) = 0.5319987 (MT CH_4/yr)

Displaced CH_4 (MT CO_2e/yr) = 531,998.6748173 (MMBtu/yr) x 0.000001 (MT CH_4/MMBtu) x 29.8 (MT CO_2e/MT CH_4) = 15.8535605 (MT CO_2e/yr)

Displaced N_2O (MT N_2O/yr) = 531,998.6748173 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) = 0.0531999 (MT N_2O/yr)

Displaced N_2O (MT CO_2e/yr) = 531,998.6748173 (MMBtu/yr) x 0.0000001 (MT N_2O/MMBtu) x 273.0 (MT CO_2e/MT N_2O) = 14.5235638 (MT CO_2e/yr)

Displaced GHG (MT CO_2e/yr) = 28,227.8496858 (MT CO_2e/yr) + 15.8535605 (MT CO_2e/yr) + 14.5235638 (MT CO_2e/yr) = 28,258.2268101 (MT COe/yr)

Appendix C.5:
Production

GHG Results, Calculations, and Data

Tab Contents

This tab compiles relevant information on potential thermal efficiency for the external combustion unit fueled by hydrogen and calculates an average value to use in the calculations.

Purchasing Energy-Efficient Large Commercial Boilers | Department of Energy

TABLE 1. EFFICIENCY REQUIREMENTS FOR LARGE COMMERCIAL BOILERS

Product Class	Rated Capacity	Fuel	Heating Medium	Efficiency* (%)
Large Gas-Fired Hot Water	>2,500,000 Btu/h and ≤10,000,000 Btu/h	Gas	Hot Water	$E_c \geq 96.0$
Large Gas-Fired Steam	>2,500,000 Btu/h and ≤10,000,000 Btu/h	Gas	Steam	$E_t \geq 83.0$
Large Oil-Fired Hot Water	>2,500,000 Btu/h and ≤10,000,000 Btu/h	Oil	Hot Water	$E_c \geq 89.0$
Large Oil-Fired Steam	>2,500,000 Btu/h and ≤10,000,000 Btu/h	Oil	Steam	$E_t \geq 85.5$

*Both thermal efficiency (E_t) and combustion efficiency (E_c) are based on 10 CFR Part 431.86 - Uniform test method for the measurement of energy efficiency of commercial packaged boilers.

Table 4. Calculation results.

Fuel	Natural gas	Mixture of natural gas and hydrogen			Hydrogen
Proportion of hydrogen in the mixture	0	0.25	0.5	0.75	1
Fuel combustion heat, kJ/m^3	36832.7	30314.5	23796.4	17278.2	10760.0
Actual air consumption, m^3/m^3	10.0692	8.1650	6.2608	4.3566	2.4524
Specific consumption of fume gases, m^3/m^3	11.0941	9.0587	7.0233	4.9878	2.9524
Fume gases composition, volume percentages:					
CO_2	9.3878	8.6229	7.4146	5.2202	0.0000
H_2O	18.2783	19.5487	21.5556	25.2005	33.8710
O_2	0.5551	0.5513	0.5452	0.5342	0.5081
N_2	71.7788	71.2771	70.4845	69.0451	65.6210
Furnace 1					
Temperatures of fume gases leaving the furnace, °C	915	911	900	883	880
Air heating temperature, °C	352	350	341	328	319
Fuel consumption for furnace, m^3/year	6151	7439	9405	12790	20253
Fuel utilization rate	0.7102	0.7134	0.7187	0.7277	0.7379
Efficiency coefficient of the furnace, %	36.2	36.3	36.6	37.1	37.6
Mass emission of CO_2, kg/m^3 of fuel	2.046	1.534	1.023	0.511	0.000
Specific emission of CO_2, kg/t of metal	125.84	114.14	96.20	65.41	0.00
Annual emission of CO_2, thousand t/year	88.09	79.90	67.34	45.79	0
Furnace 2					
Temperatures of fume gases leaving the furnace, °C	860	856	842	825	820
Air heating temperature, °C	450	449	449	444	425
Fuel consumption for furnace, m^3/year	4562	5523	6956	9466	15166
Fuel utilization rate	0.7752	0.778	0.7866	0.7959	0.7980
Efficiency coefficient of the furnace, %	48.8	48.9	49.5	50.1	50.2
Mass emission of CO_2, kg/m^3 of fuel	2.046	1.534	1.023	0.511	0.000
Specific emission of CO_2, kg/t of metal	93.33	84.74	71.15	48.41	0.00
Annual emission of CO_2, thousand t/year	65.33	59.32	49.81	33.89	0

pdf (iop.org)
https://iopscience.iop.org/article/10.1088/1755-1315/1156/1/012035/pdf

Take the case of a theoretical packaged boiler running at around 600 PSIG and at 750°F that can deal with 100,000 lbs per hour. Efficiency will be lower with hydrogen (less than 80%) at high heating value (HHV) compared to natural gas (84%). But this can be misleading. At a low heating value (LHV), hydrogen efficiency risen to almost 95% whereas natural gas at LHV is only 93%. The important thing is to know whether you are dealing with HHV or LHV numbers. Confusion could lead to misunderstandings and miscalculations.

Boilers running on hydrogen: What you need to know (power-eng.com)
https://www.power-eng.com/hydrogen/boilers-running-on-hydrogen-what-you-need-to-know/

Unit	Efficiency	Source
Large Gas-	96%	US DOE
Large Gas-	83%	US DOE
Hydrogen	37.6	Gupalo et al.
Hydrogen-	50.2	Gupalo et al.
HHV Hydro	75%	Gerardo Lara
LHV Hydro	95%	Gerardo Lara
Average	73%	

*Article states "Efficiency will be lower with hydrogen (less than 80%) at high heating value".
Used 75% in the absence of an exact value.

	A	B
1		
2		**Tab Contents**
3		Additional information on combustion ratio process used to develop calculations in Tab 3. External_Comb_Calcs_H2. This relates to the raw data in Tabs 6. External_Comb_Heat_Rating and 7. PNNL_SMR_Facilities.
4		
5		**Development of the Combustion Ratio:**
6		To calculate N2O emissions from the external combustion unit within the steam reforming process, a heat rating per unit of hydrogen produced was required. To estimate an appropriate heat rating for the steam reforming process, air permits for existing steam methane reforming plants were reviewed. Only standalone SMR production facilities, external combustion units with a given heat rating rather than a “not-to-exceed", and facilities with no more than 2 external combustion units were reviewed.
7		The external combustion unit heat rating was compared against the plant hydrogen production capacity to develop a ratio of (MMBtu/hr) / (MMscf/day H2 production) ratio. For facilities where the plant H2 production capacity was not stated in the air permit, the facility H2 production capacity was gathered from the Pacific Northwest National Laboratory (PNNL) Hydrogen Analysis Resource Center North American Merchant Hydrogen Plant Production Capacity list (shown on tab "PNNL_SMR_Facilities"). Of the facilities considered, the highest (MMBtu/hr) / (MMscf/day H2 production) ratio was 3.71 MMBtu/hr per MMscf/day H2 production, and the average was 2.97 MMBtu/hr per MMscf/day H2 production.
8		Three calculation cases were established: the Maximum Ratio Case using the average plus standard deviation for the ratio value, the Average Ratio Case using the average ratio, and the Minimum Ratio Case using the average ratio minus the standard deviation for the ratio value.

	A	B	C	D	E	F	G	H	I	J	Q	R	S
1													
2		**Tab Contents**											
3		This tab calculates the average MMBtu/hr to MMscf/day of H2 production ratio based on the data shown for four existing SMR facilities for which the necessary information was publicly available. "H2 Production Capacity" and "Furnace/Heater Rating" are from facility data.											
4													
5	**Co-Located at Refinery or No. Units**	**Company**	**City**	**State**	**H2 Production Capacity (MMscf/day)**	**Units**	**Furnace/Heater Rating (MMBtu/hr)**	**Units**	**Rating/Capacity (MMBtu/hr / MMscf/day)**	**Annual Production Capacity (MMScf/yr)**			
6	No	Praxair	Niagara Falls	NY	22.5	MMscf/day	46.01	MMBtu/hr	2.04	8,212.50			
7		Shell (from calc workbook)	San Francisco	CA	4.23	MMscf/day	15.69	Mmbtu/hr	3.71	1,543.95			
8		Air Products	Hamilton	OH	2.3	MMscf/day	6.2	MMBtu/hr	2.696	839.50			
9	2 units	Hoeganaes Corporation	Gallatin	TN	0.75	MMscf/day	2.58	MMBtu/hr	3.44	273.75			
10													
21								Avg	2.97				
22								Std Dev	0.652				
23													
24													

Tab Contents

This tab demonstrates the conversion from 2.00 ppm N2O to 0.0016 lb N2O/MMBtu.

Factor	Value	Units	Source
Fd CH4	8710.00	scf/mmbtu	Table 19-2 F-Factors for Various Fuels, EPA Method 19 https://www.epa.gov/sites/default/files/2017-08/documents/method_19.pdf
Fd H2	5975.05	scf/mmbtu	Jahnke 1993
Correction 100% H2 Ratio	1.37	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
O2%	3.36	scf/100 scf	This is the O2% required to convert between 0.0062 lb/mmbtu to 5 ppm from South Coast Rule 1146
Corrected Oxygen	1.17	scf/scf	Using 3% O2 for the N2O calculation
O2 Correction %	1.19	scf/scf	Calculated: 20.9/(20.9 -O2%)
Molar Volume	385.31	dscf/lb-mol	1 atm and 68 F
Molar Weight N2O	44.01	g/mol	
Conv (Conc-ppm)	1000000.00	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-ton)	2000.00	lb/ton	
N2O H2 EF - Combustion	2.00	ppm	Conservative Estimate based on Scienfitic Literature
N2O H2 EF - Combustion	0.0016	lb/mmbtu	Calculated

$$N2O\ ppm \div Conv\ (Conc - ppm) \div Molar\ Volume\ \left(\frac{dscf}{lb{-}mol}\right) * Fd\ H_2\ \left(\frac{scf}{MMbtu}\right) * \left(\frac{20.9}{20.9 - O_2\%}\right) = N_2O\ Emission\ Factor\ \left(\frac{lb}{MMBtu}\right)$$

$$2\ ppm * \left(\frac{1\ scf}{1{,}000{,}000\ scf{-}ppm}\right) * \left(\frac{1\ lb{-}mol}{385\ dscf}\right) * 44.01\frac{g}{mol} * 5975.05\frac{scf}{MMbtu} * 1.17\frac{scf}{scf} = 0.0016\frac{lb}{MMbtu}$$

Tab Contents

This tab calculates estimated N2O emissions from the combustion of hydrogen per the MMBtu of fuel required to produce the hydrogen demand projected by the Demand Study. The top of the tab includes conversion factors and emissions factors utilized within the calculations. The rows below outline the calculation process, and an equation is included at the top of each set of calculations. Please see the "4. Combustion Ratio" tab for a more detailed description of the ratios presented in rows 19 through 21.

Conversion Factors

Metric	Unit	Value	Source
HHV	Btu/ lb	60,920	Fuels - Higher and Lower Calorific Values (engineeringtoolbox.com)
Days per year	Days/yr	365	
Hours per year	hrs/yr	8,760	
tons/ 000 tons	tons/ 000 tons	1,000	
Conv (lb-short ton)	lbs/ ton	2,000	
Conv (Btu-MMBtu)	Btu/ MMBtu	1,000,000	
Conv (kg-MT)	kg/MT	1,000	
Conv (kg-short tons)	kg/short tons	907.18474	
H2 Weight	lb/scf	0.005209	https://keengas.com/gases/hydrogen/
Conv (lb-MT)	lb/MT	2,204.60	https://converterin.com/weight-mass/metric-tons-mt-to-pounds-lb.html
Conv (scf-MMscf)	scf/MMscf	1,000,000	
Thermal Efficiency	%	73%	See Tab 9. Thermal Efficiency
Ratio High	MMBtu/hr per	3.62	Permitted SMR facilities with 1 external combustion unit not co-located at a refinery
Ratio Mid	MMBtu/hr per	2.97	Permitted SMR facilities with 1 external combustion unit not co-located at a refinery
Ratio Low	MMBtu/hr per	2.32	Permitted SMR facilities with 1 external combustion unit not co-located at a refinery
N2O EF	lb/MMBtu	0.00159	Calculated on EF_Conv_Calc tab

Overall H2 Demand Summary (MMBtu/yr)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	15,040,062.3	20,039,788.9	26,900,972.6	35,707,219.6	46,561,611.0	59,735,032.8	73,422,447.5	87,074,152.2	100,699,231.8	114,375,347.3	128,276,215.2	143,683,410.2	160,384,717.4	178,390,112.3	197,651,320.2	218,158,246.0
Moderate Demand	32,394,468.3	41,292,519.5	52,582,755.2	66,333,697.1	82,842,546.7	102,244,522.4	122,832,229.3	144,191,023.0	165,952,404.4	188,331,988.9	211,611,166.4	237,174,477.0	264,300,900.7	293,070,542.4	323,447,348.2	355,381,942.7
Ambitious Demand	126,886,641.5	149,054,169.1	173,491,362.2	200,485,117.1	230,240,132.6	262,745,046.8	296,544,623.4	333,310,118.9	370,083,058.7	408,188,959.4	448,126,955.5	488,985,592.8	531,870,935.3	576,956,761.4	623,776,900.6	672,551,001.0

Overall H2 Demand Produced by SMR (MMBtu/yr)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	15,040,062.3	20,039,788.9	26,900,972.6	35,707,219.6	46,561,611.0	59,735,032.8	73,422,447.5	87,074,152.2	100,699,231.8	114,375,347.3	128,276,215.2	143,683,410.2	160,384,717.4	178,390,112.3	197,651,320.2	218,158,246.0
Moderate Demand	32,394,468.3	41,292,519.5	52,582,755.2	66,333,697.1	82,842,546.7	102,244,522.4	122,832,229.3	144,191,023.0	165,952,404.4	188,331,988.9	211,611,166.4	237,174,477.0	264,300,900.7	293,070,542.4	323,447,348.2	355,381,942.7
Ambitious Demand	126,886,641.5	149,054,169.1	173,491,362.2	200,485,117.1	230,240,132.6	262,745,046.8	296,544,623.4	333,310,118.9	370,083,058.7	408,188,959.4	448,126,955.5	488,985,592.8	531,870,935.3	576,956,761.4	623,776,900.6	672,551,001.0

H2 Demand (MT/yr) = H2 Demand (MMBtu/yr) * 1,000,000 Btu/MMBtu * (1/60920 Btu/lb) * (1/2204.6 lb/MT)

H2 Demand Produced by SMR Summary (Metric Tons/year)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	111,985.0	149,211.9	200,298.8	265,868.2	346,687.6	444,774.0	546,687.5	648,335.1	749,784.5	851,613.9	955,116.7	1,069,835.3	1,194,189.6	1,328,253.8	1,471,668.6	1,624,358.7
Moderate Demand	241,202.1	307,455.1	391,519.7	493,906.2	616,827.5	761,290.4	914,582.0	1,073,614.9	1,235,645.4	1,402,278.9	1,575,610.6	1,765,949.4	1,967,926.8	2,182,139.3	2,408,318.4	2,646,096.4
Ambitious Demand	944,770.2	1,109,824.8	1,291,778.8	1,492,768.4	1,714,317.8	1,956,342.3	2,208,006.5	2,481,754.4	2,755,557.7	3,039,285.9	3,336,655.5	3,640,880.0	3,960,194.9	4,295,894.1	4,644,506.7	5,007,668.0

H2 Demand (kg/yr) = H2 Demand (MT/yr) * 1000 (kg/MT)

H2 Demand Produced by SMR Summary (kg/year)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	111,985,021.1	149,211,894.2	200,298,770.9	265,868,163.9	346,687,593.8	444,774,017.4	546,687,519.7	648,335,133.6	749,784,502.7	851,613,873.6	955,116,702.7	1,069,835,314.1	1,194,189,602.6	1,328,253,843.5	1,471,668,593.2	1,624,358,687.3
Moderate Demand	241,202,141.0	307,455,088.1	391,519,719.4	493,906,231.7	616,827,522.9	761,290,399.0	914,581,971.7	1,073,614,888.0	1,235,645,384.9	1,402,278,886.4	1,575,610,561.4	1,765,949,393.5	1,967,926,823.6	2,182,139,297.2	2,408,318,363.6	2,646,096,384.5
Ambitious Demand	944,770,239.9	1,109,824,812.3	1,291,778,818.7	1,492,768,426.7	1,714,317,778.1	1,956,342,275.0	2,208,006,546.1	2,481,754,401.1	2,755,557,685.9	3,039,285,905.4	3,336,655,508.6	3,640,880,004.3	3,960,194,905.4	4,295,894,126.2	4,644,506,664.6	5,007,667,971.1

H2 Demand (MT/day) = H2 Demand (MT/yr) / 365 (days/yr)

H2 Demand Produced by SMR Summary (Metric Tons/day)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	306.8	408.8	548.8	728.4	949.8	1,218.6	1,497.8	1,776.3	2,054.2	2,333.2	2,616.8	2,931.1	3,271.8	3,639.1	4,032.0	4,450.3
Moderate Demand	660.8	842.3	1,072.7	1,353.2	1,689.9	2,085.7	2,505.7	2,941.4	3,385.3	3,841.9	4,316.7	4,838.2	5,391.6	5,978.5	6,598.1	7,249.6
Ambitious Demand	2,588.4	3,040.6	3,539.1	4,089.8	4,696.8	5,359.8	6,049.3	6,799.3	7,549.5	8,326.8	9,141.5	9,975.0	10,849.8	11,769.6	12,724.7	13,719.6

H2 Demand (MMscf/day) = H2 Demand (MT/day) * 2204.6 (lb/MT) (1/.005209 lb/scf) * (1/1,000,000 scf/MMscf)

H2 Demand Produced by SMR Summary (MMscf/day)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	129.9	173.0	232.3	308.3	402.0	515.7	633.9	751.8	869.4	987.5	1,107.5	1,240.5	1,384.7	1,540.2	1,706.4	1,883.5
Moderate Demand	279.7	356.5	454.0	572.7	715.2	882.7	1,060.5	1,244.9	1,432.8	1,626.0	1,827.0	2,047.7	2,281.9	2,530.3	2,792.5	3,068.2
Ambitious Demand	1,095.5	1,286.9	1,497.9	1,730.9	1,987.8	2,268.4	2,560.3	2,877.7	3,195.2	3,524.1	3,869.0	4,221.7	4,592.0	4,981.2	5,385.5	5,806.5

External Combustion (MMBtu/hr) = H2 Demand (MMscf/day) * 3.62 (MMBtu/hr)/(MMscf/day)

External Combustion Required (MMBtu/hr) - Maximum Ratio Case (avg + std dev)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	470.6	627.0	841.7	1,117.2	1,456.9	1,869.0	2,297.3	2,724.4	3,150.8	3,578.7	4,013.6	4,495.7	5,018.2	5,581.6	6,184.3	6,825.9
Moderate Demand	1,013.6	1,292.0	1,645.2	2,075.5	2,592.0	3,199.1	3,843.3	4,511.6	5,192.4	5,892.7	6,621.0	7,420.9	8,269.6	9,169.8	10,120.3	11,119.4
Ambitious Demand	3,970.1	4,663.7	5,428.3	6,272.9	7,203.9	8,221.0	9,278.5	10,428.9	11,579.4	12,771.7	14,021.3	15,299.7	16,641.6	18,052.2	19,517.2	21,043.3

External Combustion (MMBtu/yr) = External Combustion (MMBtu/hr) * 8760 (hrs/yr)

External Combustion Required (MMBtu/yr) - Maximum Ratio Case (avg + std dev)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	4,122,319.8	5,492,691.3	7,373,268.2	9,786,966.1	12,762,038.5	16,372,732.2	20,124,305.8	23,866,091.7	27,600,580.0	31,349,056.7	35,159,135.6	39,382,082.6	43,959,731.8	48,894,817.6	54,174,108.2	59,794,836.7
Moderate Demand	8,878,976.5	11,317,837.0	14,412,369.6	18,181,355.3	22,706,254.0	28,024,127.6	33,666,997.4	39,521,213.8	45,485,775.2	51,619,779.4	58,000,352.4	65,006,981.8	72,442,043.8	80,327,494.2	88,653,451.0	97,406,381.1
Ambitious Demand	34,778,268.3	40,854,150.0	47,552,122.7	54,950,821.5	63,106,352.3	72,015,600.9	81,279,702.5	91,356,730.7	101,435,799.4	111,880,218.3	122,826,794.9	134,025,709.4	145,780,122.1	158,137,663.7	170,970,562.0	184,339,020.1

External Combustion (MMBtu/yr) = External Combustion (MMBtu/yr) / 73% thermal efficiency

External Combustion Required Fuel Input (MMBtu/yr) - Maximum Ratio Case (avg + std dev)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	5,662,527.3	7,544,905.6	10,128,115.7	13,443,634.8	17,530,272.6	22,490,016.7	27,643,277.2	32,783,093.1	37,912,884.6	43,061,891.0	48,295,515.9	54,096,267.3	60,384,247.0	67,163,211.0	74,414,983.8	82,135,764.7
Moderate Demand	12,196,396.3	15,546,479.3	19,797,210.9	24,974,389.2	31,189,909.4	38,494,680.8	46,245,875.5	54,287,381.6	62,480,460.4	70,906,290.3	79,670,813.7	89,295,304.7	99,508,301.9	110,339,964.5	121,776,718.4	133,799,974.0
Ambitious Demand	47,772,346.6	56,118,337.9	65,318,849.8	75,481,897.7	86,684,549.9	98,922,528.7	111,647,943.0	125,490,014.7	139,334,889.3	153,681,618.5	168,718,124.9	184,101,249.2	200,247,420.5	217,222,065.6	234,849,673.1	253,212,939.7

H2 Production Including Fuel (MMBtu/yr) = H2 Demand (MMBtu/yr) + External Combustion (MMBtu/yr)

H2 Production Including Fuel (MMBtu/yr) - Maximum Ratio Case (avg + std dev)

Scenario	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
Conservative Demand	20,702,589.5	27,584,694.5	37,029,088.3	49,150,854.4	64,091,883.7	82,225,049.6	101,065,724.7	119,857,245.2	138,612,116.4	157,437,238.3	176,571,731.1	197,779,677.5	220,768,964.5	245,553,323.3	272,066,303.9	300,294,010.7
Moderate Demand	44,590,864.6	56,838,998.8	72,379,966.2	91,308,086.3	114,032,456.1	140,739,203.1	169,078,104.8	198,478,404.6	228,432,864.8	259,238,279.2	291,281,980.1	326,469,781.7	363,809,202.5	403,410,507.0	445,224,066.7	489,181,916.7
Ambitious Demand	174,658,988.1	205,172,507.0	238,810,212.0	275,967,014.8	316,924,682.5	361,667,575.5	408,192,566.5	458,800,133.6	509,417,948.0	561,870,577.8	616,845,080.4	673,086,842.0	732,118,355.8	794,178,826.9	858,626,573.7	925,763,940.7

H2 Production Inc Fuel (MT/yr) = H2 Production Inc Fuel (MMBtu/yr) * 1,000,000 Btu/MMBtu * (1/60920 Btu/lb)*(1/2204.6 lb/MT)

H2 Production Including Fuel (MT/yr) - Maximum Ratio Case (avg + std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	154,147.0	205,389.6	275,710.5	365,966.5	477,214.2	612,229.8	752,513.3	892,430.9	1,032,075.6	1,172,243.3	1,314,714.6	1,472,624.3	1,643,797.5	1,828,336.5	2,025,746.3	2,235,923.7
Moderate Demand	332,013.8	423,210.8	538,925.4	679,860.1	849,060.8	1,047,913.4	1,258,918.7	1,477,826.9	1,700,861.3	1,930,231.6	2,168,822.1	2,430,822.7	2,708,843.9	3,003,706.6	3,315,041.2	3,642,341.8
Ambitious Demand	1,300,472.7	1,527,669.7	1,778,128.7	2,054,790.2	2,359,752.0	2,692,897.8	3,039,312.8	3,416,125.7	3,793,014.9	4,183,565.7	4,592,893.8	5,011,657.7	5,451,193.5	5,913,282.2	6,393,146.1	6,893,036.3

H2 Production Including Fuel (kg/yr) = H2 Demand (MT/yr) * 1000 (kg/MT)

H2 Production Including Fuel (kg/yr) - Maximum Ratio Case (avg + std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	154,146,963.3	205,389,615.0	275,710,509.9	365,966,534.5	477,214,177.9	612,229,773.6	752,513,328.9	892,430,889.7	1,032,075,567.3	1,172,243,316.0	1,314,714,573.6	1,472,624,313.7	1,643,797,527.4	1,828,336,454.2	2,025,746,321.5	2,235,923,665.7
Moderate Demand	332,013,846.2	423,210,780.4	538,925,431.3	679,860,083.0	849,060,781.2	1,047,913,390.7	1,258,918,667.9	1,477,826,883.0	1,700,861,256.8	1,930,231,649.2	2,168,822,052.4	2,430,822,743.8	2,708,843,921.9	3,003,706,591.8	3,315,041,231.8	3,642,341,789.3
Ambitious Demand	1,300,472,706.3	1,527,669,708.7	1,778,128,718.8	2,054,790,163.4	2,359,752,018.1	2,692,897,834.1	3,039,312,763.2	3,416,125,663.1	3,793,014,861.9	4,183,565,696.2	4,592,893,844.2	5,011,657,726.3	5,451,193,494.8	5,913,282,218.4	6,393,146,075.3	6,893,036,257.2

H2 Production Including Fuel (MMscf/day) = H2 Production Including Fuel (MT/yr) ÷ 365 (days/yr) * 2204.6 (lb/MT) * (1/0.005209 lb/scf) * (1/1,000,000 scf/MMscf)

H2 Production Including Fuel (MMscf/day) - Maximum Ratio Case (avg + std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	178.7	238.2	319.7	424.3	553.3	709.9	872.6	1,034.8	1,196.7	1,359.3	1,524.5	1,707.6	1,906.0	2,120.0	2,348.9	2,592.6
Moderate Demand	385.0	490.7	624.9	788.3	984.5	1,215.1	1,459.8	1,713.6	1,972.2	2,238.2	2,514.8	2,818.6	3,141.0	3,482.9	3,843.9	4,223.4
Ambitious Demand	1,507.9	1,771.4	2,061.8	2,382.6	2,736.2	3,122.5	3,524.2	3,961.1	4,398.1	4,851.0	5,325.6	5,811.2	6,320.8	6,856.6	7,413.1	7,992.7

TOTAL Ext Combustion (MMBtu/yr) = H2 Demand (MMscf/day) * 3.62 (MMBtu/hr)/(MMscf/day) * 8760 (hr/yr)

TOTAL Ext Combustion MMBtu/yr - Maximum Ratio Case (avg + std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	5,674,357.9	7,560,669.1	10,149,276.2	13,471,722.3	17,566,898.3	22,537,004.7	27,701,031.8	32,851,586.1	37,992,095.3	43,151,859.4	48,396,418.8	54,209,289.5	60,510,406.7	67,303,533.8	74,570,457.6	82,307,369.4
Moderate Demand	12,221,878.0	15,578,960.3	19,838,572.9	25,026,567.7	31,255,073.9	38,575,107.0	46,342,496.1	54,400,803.1	62,610,999.6	71,054,433.5	79,837,268.4	89,481,867.7	99,716,202.6	110,570,495.7	122,031,144.2	134,079,519.7
Ambitious Demand	47,872,156.4	56,235,584.9	65,455,319.2	75,639,600.6	86,865,658.3	99,129,205.6	111,881,206.9	125,752,198.6	139,625,999.0	154,002,702.5	169,070,624.4	184,485,888.4	200,665,793.5	217,675,903.4	235,340,340.0	253,741,972.6

TOTAL Ext Combustion (MMBtu/yr) = H2 Demand (MMscf/day) * 2.97 (MMBtu/hr)/(MMscf/day) * 8760 (hr/yr)

TOTAL Ext Combustion MMBtu/yr - Average Ratio Case (avg)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	4,654,090.2	6,201,236.6	8,324,403.8	11,049,463.5	14,408,313.7	18,484,779.1	22,720,297.6	26,944,765.7	31,160,994.9	35,393,016.9	39,694,587.7	44,462,285.7	49,630,441.8	55,202,142.8	61,162,450.4	67,508,240.8
Moderate Demand	10,024,345.2	12,777,813.3	16,271,533.9	20,526,710.7	25,635,311.5	31,639,179.2	38,009,966.9	44,619,364.5	51,353,341.3	58,278,618.8	65,482,271.8	73,392,741.2	81,786,910.0	90,689,566.4	100,089,553.6	109,971,592.6
Ambitious Demand	39,264,589.4	46,124,246.6	53,686,243.2	62,039,358.1	71,246,934.7	81,305,457.0	91,764,607.6	103,141,550.5	114,520,797.1	126,312,523.4	138,671,184.6	151,314,734.8	164,585,441.2	178,537,078.8	193,025,393.1	208,118,353.2

TOTAL Ext Combustion (MMBtu/yr) = H2 Demand (MMscf/day) * 2.32 (MMBtu/hr)/(MMscf/day) * 8760 (hr/yr)

TOTAL Ext Combustion MMBtu/yr - Minimum Ratio Case (avg - std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	3,633,822.4	4,841,804.0	6,499,531.4	8,627,204.7	11,249,729.1	14,432,553.4	17,739,563.3	21,037,945.3	24,329,894.5	27,634,174.3	30,992,756.6	34,715,281.8	38,750,476.8	43,100,751.9	47,754,443.3	52,709,112.1
Moderate Demand	7,826,812.4	9,976,666.4	12,704,495.0	16,026,853.6	20,015,549.1	24,703,251.4	29,677,437.7	34,837,925.9	40,095,683.1	45,502,804.1	51,127,275.3	57,303,614.8	63,857,617.4	70,808,637.2	78,147,963.0	85,863,665.5
Ambitious Demand	30,657,022.3	36,012,908.3	41,917,167.1	48,439,115.7	55,628,211.1	63,481,708.3	71,648,008.2	80,530,902.5	89,415,595.3	98,622,344.2	108,271,744.8	118,143,581.2	128,505,088.8	139,398,254.2	150,710,446.2	162,494,733.9

External Combustion (inc fuel) N2O Emissions (MT/yr) = H2 Production Including Fuel (MMBtu/yr) * N2O EF (lb/MMBtu) * (1/2204.6 lb/MT)

External Combustion (inc fuel) N2O Emissions (MT/yr) - Maximum Ratio Case (avg + std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	4.1	5.5	7.3	9.7	12.7	16.3	20.0	23.8	27.5	31.2	35.0	39.2	43.7	48.7	53.9	59.5
Moderate Demand	8.8	11.3	14.3	18.1	22.6	27.9	33.5	39.3	45.3	51.4	57.7	64.7	72.1	79.9	88.2	96.9
Ambitious Demand	34.6	40.7	47.3	54.7	62.8	71.7	80.9	90.9	100.9	111.3	122.2	133.4	145.1	157.4	170.1	183.4

External Combustion (inc fuel) N2O Emissions (MT/yr) = H2 Production Including Fuel (MMBtu/yr) * N2O EF (lb/MMBtu) * (1/2204.6 lb/MT)

External Combustion (inc fuel) N2O Emissions (MT/yr) - Average Ratio Case (avg)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	3.4	4.5	6.0	8.0	10.4	13.4	16.4	19.5	22.5	25.6	28.7	32.1	35.9	39.9	44.2	48.8
Moderate Demand	7.2	9.2	11.8	14.8	18.5	22.9	27.5	32.3	37.1	42.1	47.3	53.1	59.1	65.6	72.4	79.5
Ambitious Demand	28.4	33.3	38.8	44.9	51.5	58.8	66.3	74.6	82.8	91.3	100.3	109.4	119.0	129.1	139.5	150.5

External Combustion (inc fuel) N2O Emissions (MT/yr) = H2 Production Including Fuel (MMBtu/yr) * N2O EF (lb/MMBtu) * (1/2204.6 lb/MT)

External Combustion (inc fuel) N2O Emissions (MT/yr) - Minimum Ratio Case (avg - std dev)

	Year															
Scenario	**2030**	**2031**	**2032**	**2033**	**2034**	**2035**	**2036**	**2037**	**2038**	**2039**	**2040**	**2041**	**2042**	**2043**	**2044**	**2045**
Conservative Demand	2.6	3.5	4.7	6.2	8.1	10.4	12.8	15.2	17.6	20.0	22.4	25.1	28.0	31.2	34.5	38.1
Moderate Demand	5.7	7.2	9.2	11.6	14.5	17.9	21.5	25.2	29.0	32.9	37.0	41.4	46.2	51.2	56.5	62.1
Ambitious Demand	22.2	26.0	30.3	35.0	40.2	45.9	51.8	58.2	64.6	71.3	78.3	85.4	92.9	100.8	109.0	117.5

Appendix C.6:
Storage and Transmission

GHG Results, Calculations, and Data

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
52	1-S&T_Low (Long-Turbine-UG)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY49
53	1-S&T_Low (Long-Turbine-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY50
54	1-S&T_Low (Long-Turbine-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY51
55	1-S&T_Low (Long-Turbine-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY52
56	1-S&T_Low (Long-Turbine-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY53
57	1-S&T_Low (Long-Turbine-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY54
59	1-S&T_Low (Long-Turbine-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY56
60	1-S&T_Low (Long-Turbine-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY57
61	1-S&T_Low (Long-Turbine-UG)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY58
62	1-S&T_Low (Long-Turbine-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY59
63	1-S&T_Low (Long-Turbine-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY60
64	1-S&T_Low (Long-Turbine-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY61
65	1-S&T_Low (Long-Turbine-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY62
66	1-S&T_Low (Long-Turbine-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY63
68	1-S&T_Low (Long-Turbine-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY65
69	1-S&T_Low (Long-Turbine-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY66
70	1-S&T_Low (Long-Turbine-UG)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY67
71	1-S&T_Low (Long-Turbine-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY68
72	1-S&T_Low (Long-Turbine-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY69
73	1-S&T_Low (Long-Turbine-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY70
74	1-S&T_Low (Long-Turbine-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY71
75	1-S&T_Low (Long-Turbine-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY72
77	1-S&T_Low (Long-Turbine-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY74
78	1-S&T_Low (Long-Turbine-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY75
79	1-S&T_Low (Long-Turbine-UG)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY76
80	1-S&T_Low (Long-Turbine-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY77
81	1-S&T_Low (Long-Turbine-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY78
82	1-S&T_Low (Long-Turbine-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY79
83	1-S&T_Low (Long-Turbine-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY80
84	1-S&T_Low (Long-Turbine-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY81
86	1-S&T_Low (Long-Turbine-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY83
87	1-S&T_Low (Long-Turbine-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY84
88	1-S&T_Low (Long-Turbine-UG)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY85
89	1-S&T_Low (Long-Turbine-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY86
90	1-S&T_Low (Long-Turbine-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY87
91	1-S&T_Low (Long-Turbine-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY88
92	1-S&T_Low (Long-Turbine-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY89

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
93	1-S&T_Low (Long-Turbine-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY90
95	1-S&T_Low (Long-Turbine-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY92
96	1-S&T_Low (Long-Turbine-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY93
97	1-S&T_Low (Long-Turbine-UG)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY94
98	1-S&T_Low (Long-Turbine-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY95
99	1-S&T_Low (Long-Turbine-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY96
100	1-S&T_Low (Long-Turbine-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY97
101	1-S&T_Low (Long-Turbine-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY98
102	1-S&T_Low (Long-Turbine-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY99
104	1-S&T_Low (Long-Turbine-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY101
105	1-S&T_Low (Long-Turbine-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY102
106	1-S&T_Low (Long-Turbine-UG)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY103
107	1-S&T_Low (Long-Turbine-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY104
108	1-S&T_Low (Long-Turbine-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY105
109	1-S&T_Low (Long-Turbine-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY106
110	1-S&T_Low (Long-Turbine-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY107
111	1-S&T_Low (Long-Turbine-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY108
113	1-S&T_Low (Long-Turbine-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY110
114	1-S&T_Low (Long-Turbine-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY111
115	1-S&T_Low (Long-Turbine-UG)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY112
116	1-S&T_Low (Long-Turbine-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY113
117	1-S&T_Low (Long-Turbine-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY114
118	1-S&T_Low (Long-Turbine-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY115
119	1-S&T_Low (Long-Turbine-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY116
120	1-S&T_Low (Long-Turbine-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY117
122	1-S&T_Low (Long-Turbine-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY119
123	1-S&T_Low (Long-Turbine-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY120
124	1-S&T_Low (Long-Turbine-UG)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY121
125	1-S&T_Low (Long-Turbine-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY122
126	1-S&T_Low (Long-Turbine-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY123
127	1-S&T_Low (Long-Turbine-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY124
128	1-S&T_Low (Long-Turbine-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY125
129	1-S&T_Low (Long-Turbine-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY126
131	1-S&T_Low (Long-Turbine-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY128
132	1-S&T_Low (Long-Turbine-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY129
133	1-S&T_Low (Long-Turbine-UG)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY130
134	1-S&T_Low (Long-Turbine-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY131

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
135	1-S&T_Low (Long-Turbine-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY132
136	1-S&T_Low (Long-Turbine-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY133
137	1-S&T_Low (Long-Turbine-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY134
138	1-S&T_Low (Long-Turbine-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY135
140	1-S&T_Low (Long-Turbine-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY137
141	1-S&T_Low (Long-Turbine-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY138
142	1-S&T_Low (Long-Turbine-UG)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY139
143	1-S&T_Low (Long-Turbine-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY140
144	1-S&T_Low (Long-Turbine-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY141
145	1-S&T_Low (Long-Turbine-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY142
146	1-S&T_Low (Long-Turbine-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY143
147	1-S&T_Low (Long-Turbine-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY144
149	1-S&T_Low (Long-Turbine-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY146
150	1-S&T_Low (Long-Turbine-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY147
151	1-S&T_Low (Long-Turbine-UG)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY148
152	1-S&T_Low (Long-Turbine-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY149
153	1-S&T_Low (Long-Turbine-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY150
154	1-S&T_Low (Long-Turbine-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY151
155	1-S&T_Low (Long-Turbine-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY152
156	1-S&T_Low (Long-Turbine-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY153
158	1-S&T_Low (Long-Turbine-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY155
159	1-S&T_Low (Long-Turbine-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY156
160	1-S&T_Low (Long-Turbine-UG)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY157
161	1-S&T_Low (Long-Turbine-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY158
162	1-S&T_Low (Long-Turbine-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY159
163	1-S&T_Low (Long-Turbine-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY160
164	1-S&T_Low (Long-Turbine-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY161
165	1-S&T_Low (Long-Turbine-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY162
167	1-S&T_Low (Long-Turbine-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY164
168	1-S&T_Low (Long-Turbine-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY165
169	1-S&T_Low (Long-Turbine-UG)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY166
170	1-S&T_Low (Long-Turbine-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY167
171	1-S&T_Low (Long-Turbine-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY168
172	1-S&T_Low (Long-Turbine-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY169
173	1-S&T_Low (Long-Turbine-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY170
174	1-S&T_Low (Long-Turbine-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY171
176	1-S&T_Low (Long-Turbine-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY173

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
177	1-S&T_Low (Long-Turbine-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY174
178	1-S&T_Low (Long-Turbine-UG)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY175
179	1-S&T_Low (Long-Turbine-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY176
180	1-S&T_Low (Long-Turbine-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY177
181	1-S&T_Low (Long-Turbine-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY178
182	1-S&T_Low (Long-Turbine-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY179
183	1-S&T_Low (Long-Turbine-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY180
185	1-S&T_Low (Long-Turbine-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY182
186	1-S&T_Low (Long-Turbine-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY183
187	1-S&T_Low (Long-Turbine-UG)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY184
188	1-S&T_Low (Long-Turbine-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY185
189	1-S&T_Low (Long-Turbine-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY186
190	1-S&T_Low (Long-Turbine-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY187
191	1-S&T_Low (Long-Turbine-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY188
192	1-S&T_Low (Long-Turbine-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY189
194	1-S&T_Low (Long-Turbine-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY191
195	1-S&T_Low (Long-Turbine-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY192
241	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY238
242	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY239
243	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY240
244	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY241
245	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY242
246	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY243
248	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY245
249	2-S&T_Low (Long-Turbine-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY246
250	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY247
251	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY248
252	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY249
253	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY250
254	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY251
255	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY252
257	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY254
258	2-S&T_Low (Long-Turbine-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY255
259	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY256
260	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY257
261	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY258
262	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY259

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
263	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY260
264	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY261
266	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY263
267	2-S&T_Low (Long-Turbine-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY264
268	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY265
269	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY266
270	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY267
271	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY268
272	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY269
273	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY270
275	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY272
276	2-S&T_Low (Long-Turbine-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY273
277	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY274
278	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY275
279	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY276
280	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY277
281	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY278
282	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY279
284	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY281
285	2-S&T_Low (Long-Turbine-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY282
286	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY283
287	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY284
288	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY285
289	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY286
290	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY287
291	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY288
293	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY290
294	2-S&T_Low (Long-Turbine-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY291
295	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY292
296	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY293
297	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY294
298	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY295
299	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY296
300	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY297
302	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY299
303	2-S&T_Low (Long-Turbine-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY300
304	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY301

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
305	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY302
306	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY303
307	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY304
308	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY305
309	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY306
311	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY308
312	2-S&T_Low (Long-Turbine-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY309
313	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY310
314	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY311
315	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY312
316	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY313
317	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY314
318	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY315
320	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY317
321	2-S&T_Low (Long-Turbine-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY318
322	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY319
323	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY320
324	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY321
325	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY322
326	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY323
327	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY324
329	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY326
330	2-S&T_Low (Long-Turbine-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY327
331	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY328
332	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY329
333	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY330
334	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY331
335	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY332
336	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY333
338	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY335
339	2-S&T_Low (Long-Turbine-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY336
340	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY337
341	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY338
342	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY339
343	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY340
344	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY341
345	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY342

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
347	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY344
348	2-S&T_Low (Long-Turbine-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY345
349	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY346
350	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY347
351	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY348
352	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY349
353	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY350
354	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY351
356	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY353
357	2-S&T_Low (Long-Turbine-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY354
358	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY355
359	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY356
360	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY357
361	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY358
362	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY359
363	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY360
365	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY362
366	2-S&T_Low (Long-Turbine-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY363
367	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY364
368	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY365
369	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY366
370	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY367
371	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY368
372	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY369
374	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY371
375	2-S&T_Low (Long-Turbine-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY372
376	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY373
377	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY374
378	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY375
379	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY376
380	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY377
381	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY378
383	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY380
384	2-S&T_Low (Long-Turbine-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY381
430	3-S&T_Low (Long-Recip-UG)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY427
431	3-S&T_Low (Long-Recip-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY428
432	3-S&T_Low (Long-Recip-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY429

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
433	3-S&T_Low (Long-Recip-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY430
434	3-S&T_Low (Long-Recip-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY431
435	3-S&T_Low (Long-Recip-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY432
437	3-S&T_Low (Long-Recip-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY434
438	3-S&T_Low (Long-Recip-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY435
439	3-S&T_Low (Long-Recip-UG)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY436
440	3-S&T_Low (Long-Recip-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY437
441	3-S&T_Low (Long-Recip-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY438
442	3-S&T_Low (Long-Recip-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY439
443	3-S&T_Low (Long-Recip-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY440
444	3-S&T_Low (Long-Recip-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY441
446	3-S&T_Low (Long-Recip-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY443
447	3-S&T_Low (Long-Recip-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY444
448	3-S&T_Low (Long-Recip-UG)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY445
449	3-S&T_Low (Long-Recip-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY446
450	3-S&T_Low (Long-Recip-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY447
451	3-S&T_Low (Long-Recip-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY448
452	3-S&T_Low (Long-Recip-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY449
453	3-S&T_Low (Long-Recip-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY450
455	3-S&T_Low (Long-Recip-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY452
456	3-S&T_Low (Long-Recip-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY453
457	3-S&T_Low (Long-Recip-UG)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY454
458	3-S&T_Low (Long-Recip-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY455
459	3-S&T_Low (Long-Recip-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY456
460	3-S&T_Low (Long-Recip-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY457
461	3-S&T_Low (Long-Recip-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY458
462	3-S&T_Low (Long-Recip-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY459
464	3-S&T_Low (Long-Recip-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY461
465	3-S&T_Low (Long-Recip-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY462
466	3-S&T_Low (Long-Recip-UG)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY463
467	3-S&T_Low (Long-Recip-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY464
468	3-S&T_Low (Long-Recip-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY465
469	3-S&T_Low (Long-Recip-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY466
470	3-S&T_Low (Long-Recip-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY467
471	3-S&T_Low (Long-Recip-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY468
473	3-S&T_Low (Long-Recip-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY470
474	3-S&T_Low (Long-Recip-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY471

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
475	3-S&T_Low (Long-Recip-UG)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY472
476	3-S&T_Low (Long-Recip-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY473
477	3-S&T_Low (Long-Recip-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY474
478	3-S&T_Low (Long-Recip-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY475
479	3-S&T_Low (Long-Recip-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY476
480	3-S&T_Low (Long-Recip-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY477
482	3-S&T_Low (Long-Recip-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY479
483	3-S&T_Low (Long-Recip-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY480
484	3-S&T_Low (Long-Recip-UG)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY481
485	3-S&T_Low (Long-Recip-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY482
486	3-S&T_Low (Long-Recip-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY483
487	3-S&T_Low (Long-Recip-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY484
488	3-S&T_Low (Long-Recip-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY485
489	3-S&T_Low (Long-Recip-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY486
491	3-S&T_Low (Long-Recip-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY488
492	3-S&T_Low (Long-Recip-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY489
493	3-S&T_Low (Long-Recip-UG)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY490
494	3-S&T_Low (Long-Recip-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY491
495	3-S&T_Low (Long-Recip-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY492
496	3-S&T_Low (Long-Recip-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY493
497	3-S&T_Low (Long-Recip-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY494
498	3-S&T_Low (Long-Recip-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY495
500	3-S&T_Low (Long-Recip-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY497
501	3-S&T_Low (Long-Recip-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY498
502	3-S&T_Low (Long-Recip-UG)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY499
503	3-S&T_Low (Long-Recip-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY500
504	3-S&T_Low (Long-Recip-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY501
505	3-S&T_Low (Long-Recip-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY502
506	3-S&T_Low (Long-Recip-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY503
507	3-S&T_Low (Long-Recip-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY504
509	3-S&T_Low (Long-Recip-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY506
510	3-S&T_Low (Long-Recip-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY507
511	3-S&T_Low (Long-Recip-UG)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY508
512	3-S&T_Low (Long-Recip-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY509
513	3-S&T_Low (Long-Recip-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY510
514	3-S&T_Low (Long-Recip-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY511
515	3-S&T_Low (Long-Recip-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY512

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
516	3-S&T_Low (Long-Recip-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY513
518	3-S&T_Low (Long-Recip-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY515
519	3-S&T_Low (Long-Recip-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY516
520	3-S&T_Low (Long-Recip-UG)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY517
521	3-S&T_Low (Long-Recip-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY518
522	3-S&T_Low (Long-Recip-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY519
523	3-S&T_Low (Long-Recip-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY520
524	3-S&T_Low (Long-Recip-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY521
525	3-S&T_Low (Long-Recip-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY522
527	3-S&T_Low (Long-Recip-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY524
528	3-S&T_Low (Long-Recip-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY525
529	3-S&T_Low (Long-Recip-UG)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY526
530	3-S&T_Low (Long-Recip-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY527
531	3-S&T_Low (Long-Recip-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY528
532	3-S&T_Low (Long-Recip-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY529
533	3-S&T_Low (Long-Recip-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY530
534	3-S&T_Low (Long-Recip-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY531
536	3-S&T_Low (Long-Recip-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY533
537	3-S&T_Low (Long-Recip-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY534
538	3-S&T_Low (Long-Recip-UG)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY535
539	3-S&T_Low (Long-Recip-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY536
540	3-S&T_Low (Long-Recip-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY537
541	3-S&T_Low (Long-Recip-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY538
542	3-S&T_Low (Long-Recip-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY539
543	3-S&T_Low (Long-Recip-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY540
545	3-S&T_Low (Long-Recip-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY542
546	3-S&T_Low (Long-Recip-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY543
547	3-S&T_Low (Long-Recip-UG)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY544
548	3-S&T_Low (Long-Recip-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY545
549	3-S&T_Low (Long-Recip-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY546
550	3-S&T_Low (Long-Recip-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY547
551	3-S&T_Low (Long-Recip-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY548
552	3-S&T_Low (Long-Recip-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY549
554	3-S&T_Low (Long-Recip-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY551
555	3-S&T_Low (Long-Recip-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY552
556	3-S&T_Low (Long-Recip-UG)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY553
557	3-S&T_Low (Long-Recip-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY554

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
558	3-S&T_Low (Long-Recip-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY555
559	3-S&T_Low (Long-Recip-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY556
560	3-S&T_Low (Long-Recip-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY557
561	3-S&T_Low (Long-Recip-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY558
563	3-S&T_Low (Long-Recip-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY560
564	3-S&T_Low (Long-Recip-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY561
565	3-S&T_Low (Long-Recip-UG)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY562
566	3-S&T_Low (Long-Recip-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY563
567	3-S&T_Low (Long-Recip-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY564
568	3-S&T_Low (Long-Recip-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY565
569	3-S&T_Low (Long-Recip-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY566
570	3-S&T_Low (Long-Recip-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY567
572	3-S&T_Low (Long-Recip-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY569
573	3-S&T_Low (Long-Recip-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY570
619	4-S&T_Low (Long-Recip-Sphere)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY616
620	4-S&T_Low (Long-Recip-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY617
621	4-S&T_Low (Long-Recip-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY618
622	4-S&T_Low (Long-Recip-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY619
623	4-S&T_Low (Long-Recip-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY620
624	4-S&T_Low (Long-Recip-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY621
626	4-S&T_Low (Long-Recip-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY623
627	4-S&T_Low (Long-Recip-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY624
628	4-S&T_Low (Long-Recip-Sphere)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY625
629	4-S&T_Low (Long-Recip-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY626
630	4-S&T_Low (Long-Recip-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY627
631	4-S&T_Low (Long-Recip-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY628
632	4-S&T_Low (Long-Recip-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY629
633	4-S&T_Low (Long-Recip-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY630
635	4-S&T_Low (Long-Recip-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY632
636	4-S&T_Low (Long-Recip-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY633
637	4-S&T_Low (Long-Recip-Sphere)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY634
638	4-S&T_Low (Long-Recip-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY635
639	4-S&T_Low (Long-Recip-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY636
640	4-S&T_Low (Long-Recip-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY637
641	4-S&T_Low (Long-Recip-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY638
642	4-S&T_Low (Long-Recip-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY639
644	4-S&T_Low (Long-Recip-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY641

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
645	4-S&T_Low (Long-Recip-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY642
646	4-S&T_Low (Long-Recip-Sphere)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY643
647	4-S&T_Low (Long-Recip-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY644
648	4-S&T_Low (Long-Recip-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY645
649	4-S&T_Low (Long-Recip-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY646
650	4-S&T_Low (Long-Recip-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY647
651	4-S&T_Low (Long-Recip-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY648
653	4-S&T_Low (Long-Recip-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY650
654	4-S&T_Low (Long-Recip-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY651
655	4-S&T_Low (Long-Recip-Sphere)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY652
656	4-S&T_Low (Long-Recip-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY653
657	4-S&T_Low (Long-Recip-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY654
658	4-S&T_Low (Long-Recip-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY655
659	4-S&T_Low (Long-Recip-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY656
660	4-S&T_Low (Long-Recip-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY657
662	4-S&T_Low (Long-Recip-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY659
663	4-S&T_Low (Long-Recip-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY660
664	4-S&T_Low (Long-Recip-Sphere)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY661
665	4-S&T_Low (Long-Recip-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY662
666	4-S&T_Low (Long-Recip-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY663
667	4-S&T_Low (Long-Recip-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY664
668	4-S&T_Low (Long-Recip-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY665
669	4-S&T_Low (Long-Recip-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY666
671	4-S&T_Low (Long-Recip-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY668
672	4-S&T_Low (Long-Recip-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY669
673	4-S&T_Low (Long-Recip-Sphere)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY670
674	4-S&T_Low (Long-Recip-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY671
675	4-S&T_Low (Long-Recip-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY672
676	4-S&T_Low (Long-Recip-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY673
677	4-S&T_Low (Long-Recip-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY674
678	4-S&T_Low (Long-Recip-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY675
680	4-S&T_Low (Long-Recip-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY677
681	4-S&T_Low (Long-Recip-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY678
682	4-S&T_Low (Long-Recip-Sphere)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY679
683	4-S&T_Low (Long-Recip-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY680
684	4-S&T_Low (Long-Recip-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY681
685	4-S&T_Low (Long-Recip-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY682

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
686	4-S&T_Low (Long-Recip-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY683
687	4-S&T_Low (Long-Recip-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY684
689	4-S&T_Low (Long-Recip-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY686
690	4-S&T_Low (Long-Recip-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY687
691	4-S&T_Low (Long-Recip-Sphere)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY688
692	4-S&T_Low (Long-Recip-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY689
693	4-S&T_Low (Long-Recip-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY690
694	4-S&T_Low (Long-Recip-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY691
695	4-S&T_Low (Long-Recip-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY692
696	4-S&T_Low (Long-Recip-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY693
698	4-S&T_Low (Long-Recip-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY695
699	4-S&T_Low (Long-Recip-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY696
700	4-S&T_Low (Long-Recip-Sphere)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY697
701	4-S&T_Low (Long-Recip-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY698
702	4-S&T_Low (Long-Recip-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY699
703	4-S&T_Low (Long-Recip-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY700
704	4-S&T_Low (Long-Recip-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY701
705	4-S&T_Low (Long-Recip-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY702
707	4-S&T_Low (Long-Recip-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY704
708	4-S&T_Low (Long-Recip-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY705
709	4-S&T_Low (Long-Recip-Sphere)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY706
710	4-S&T_Low (Long-Recip-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY707
711	4-S&T_Low (Long-Recip-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY708
712	4-S&T_Low (Long-Recip-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY709
713	4-S&T_Low (Long-Recip-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY710
714	4-S&T_Low (Long-Recip-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY711
716	4-S&T_Low (Long-Recip-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY713
717	4-S&T_Low (Long-Recip-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY714
718	4-S&T_Low (Long-Recip-Sphere)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY715
719	4-S&T_Low (Long-Recip-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY716
720	4-S&T_Low (Long-Recip-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY717
721	4-S&T_Low (Long-Recip-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY718
722	4-S&T_Low (Long-Recip-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY719
723	4-S&T_Low (Long-Recip-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY720
725	4-S&T_Low (Long-Recip-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY722
726	4-S&T_Low (Long-Recip-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY723
727	4-S&T_Low (Long-Recip-Sphere)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY724

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
728	4-S&T_Low (Long-Recip-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY725
729	4-S&T_Low (Long-Recip-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY726
730	4-S&T_Low (Long-Recip-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY727
731	4-S&T_Low (Long-Recip-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY728
732	4-S&T_Low (Long-Recip-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY729
734	4-S&T_Low (Long-Recip-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY731
735	4-S&T_Low (Long-Recip-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY732
736	4-S&T_Low (Long-Recip-Sphere)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY733
737	4-S&T_Low (Long-Recip-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY734
738	4-S&T_Low (Long-Recip-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY735
739	4-S&T_Low (Long-Recip-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY736
740	4-S&T_Low (Long-Recip-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY737
741	4-S&T_Low (Long-Recip-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY738
743	4-S&T_Low (Long-Recip-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY740
744	4-S&T_Low (Long-Recip-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY741
745	4-S&T_Low (Long-Recip-Sphere)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY742
746	4-S&T_Low (Long-Recip-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY743
747	4-S&T_Low (Long-Recip-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY744
748	4-S&T_Low (Long-Recip-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY745
749	4-S&T_Low (Long-Recip-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY746
750	4-S&T_Low (Long-Recip-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY747
752	4-S&T_Low (Long-Recip-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY749
753	4-S&T_Low (Long-Recip-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY750
754	4-S&T_Low (Long-Recip-Sphere)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY751
755	4-S&T_Low (Long-Recip-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY752
756	4-S&T_Low (Long-Recip-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY753
757	4-S&T_Low (Long-Recip-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY754
758	4-S&T_Low (Long-Recip-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY755
759	4-S&T_Low (Long-Recip-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY756
761	4-S&T_Low (Long-Recip-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY758
762	4-S&T_Low (Long-Recip-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY759
808	5-S&T_Low (Short-Turbine-UG)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY805
809	5-S&T_Low (Short-Turbine-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY806
810	5-S&T_Low (Short-Turbine-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY807
811	5-S&T_Low (Short-Turbine-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY808
812	5-S&T_Low (Short-Turbine-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY809
813	5-S&T_Low (Short-Turbine-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY810

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1					
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5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
815	5-S&T_Low (Short-Turbine-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY812
816	5-S&T_Low (Short-Turbine-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY813
817	5-S&T_Low (Short-Turbine-UG)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY814
818	5-S&T_Low (Short-Turbine-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY815
819	5-S&T_Low (Short-Turbine-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY816
820	5-S&T_Low (Short-Turbine-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY817
821	5-S&T_Low (Short-Turbine-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY818
822	5-S&T_Low (Short-Turbine-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY819
824	5-S&T_Low (Short-Turbine-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY821
825	5-S&T_Low (Short-Turbine-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY822
826	5-S&T_Low (Short-Turbine-UG)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY823
827	5-S&T_Low (Short-Turbine-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY824
828	5-S&T_Low (Short-Turbine-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY825
829	5-S&T_Low (Short-Turbine-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY826
830	5-S&T_Low (Short-Turbine-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY827
831	5-S&T_Low (Short-Turbine-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY828
833	5-S&T_Low (Short-Turbine-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY830
834	5-S&T_Low (Short-Turbine-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY831
835	5-S&T_Low (Short-Turbine-UG)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY832
836	5-S&T_Low (Short-Turbine-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY833
837	5-S&T_Low (Short-Turbine-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY834
838	5-S&T_Low (Short-Turbine-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY835
839	5-S&T_Low (Short-Turbine-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY836
840	5-S&T_Low (Short-Turbine-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY837
842	5-S&T_Low (Short-Turbine-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY839
843	5-S&T_Low (Short-Turbine-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY840
844	5-S&T_Low (Short-Turbine-UG)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY841
845	5-S&T_Low (Short-Turbine-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY842
846	5-S&T_Low (Short-Turbine-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY843
847	5-S&T_Low (Short-Turbine-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY844
848	5-S&T_Low (Short-Turbine-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY845
849	5-S&T_Low (Short-Turbine-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY846
851	5-S&T_Low (Short-Turbine-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY848
852	5-S&T_Low (Short-Turbine-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY849
853	5-S&T_Low (Short-Turbine-UG)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY850
854	5-S&T_Low (Short-Turbine-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY851
855	5-S&T_Low (Short-Turbine-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY852

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5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
856	5-S&T_Low (Short-Turbine-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY853
857	5-S&T_Low (Short-Turbine-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY854
858	5-S&T_Low (Short-Turbine-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY855
860	5-S&T_Low (Short-Turbine-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY857
861	5-S&T_Low (Short-Turbine-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY858
862	5-S&T_Low (Short-Turbine-UG)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY859
863	5-S&T_Low (Short-Turbine-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY860
864	5-S&T_Low (Short-Turbine-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY861
865	5-S&T_Low (Short-Turbine-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY862
866	5-S&T_Low (Short-Turbine-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY863
867	5-S&T_Low (Short-Turbine-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY864
869	5-S&T_Low (Short-Turbine-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY866
870	5-S&T_Low (Short-Turbine-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY867
871	5-S&T_Low (Short-Turbine-UG)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY868
872	5-S&T_Low (Short-Turbine-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY869
873	5-S&T_Low (Short-Turbine-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY870
874	5-S&T_Low (Short-Turbine-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY871
875	5-S&T_Low (Short-Turbine-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY872
876	5-S&T_Low (Short-Turbine-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY873
878	5-S&T_Low (Short-Turbine-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY875
879	5-S&T_Low (Short-Turbine-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY876
880	5-S&T_Low (Short-Turbine-UG)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY877
881	5-S&T_Low (Short-Turbine-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY878
882	5-S&T_Low (Short-Turbine-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY879
883	5-S&T_Low (Short-Turbine-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY880
884	5-S&T_Low (Short-Turbine-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY881
885	5-S&T_Low (Short-Turbine-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY882
887	5-S&T_Low (Short-Turbine-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY884
888	5-S&T_Low (Short-Turbine-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY885
889	5-S&T_Low (Short-Turbine-UG)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY886
890	5-S&T_Low (Short-Turbine-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY887
891	5-S&T_Low (Short-Turbine-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY888
892	5-S&T_Low (Short-Turbine-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY889
893	5-S&T_Low (Short-Turbine-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY890
894	5-S&T_Low (Short-Turbine-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY891
896	5-S&T_Low (Short-Turbine-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY893
897	5-S&T_Low (Short-Turbine-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY894

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
898	5-S&T_Low (Short-Turbine-UG)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY895
899	5-S&T_Low (Short-Turbine-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY896
900	5-S&T_Low (Short-Turbine-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY897
901	5-S&T_Low (Short-Turbine-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY898
902	5-S&T_Low (Short-Turbine-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY899
903	5-S&T_Low (Short-Turbine-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY900
905	5-S&T_Low (Short-Turbine-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY902
906	5-S&T_Low (Short-Turbine-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY903
907	5-S&T_Low (Short-Turbine-UG)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY904
908	5-S&T_Low (Short-Turbine-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY905
909	5-S&T_Low (Short-Turbine-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY906
910	5-S&T_Low (Short-Turbine-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY907
911	5-S&T_Low (Short-Turbine-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY908
912	5-S&T_Low (Short-Turbine-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY909
914	5-S&T_Low (Short-Turbine-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY911
915	5-S&T_Low (Short-Turbine-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY912
916	5-S&T_Low (Short-Turbine-UG)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY913
917	5-S&T_Low (Short-Turbine-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY914
918	5-S&T_Low (Short-Turbine-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY915
919	5-S&T_Low (Short-Turbine-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY916
920	5-S&T_Low (Short-Turbine-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY917
921	5-S&T_Low (Short-Turbine-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY918
923	5-S&T_Low (Short-Turbine-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY920
924	5-S&T_Low (Short-Turbine-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY921
925	5-S&T_Low (Short-Turbine-UG)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY922
926	5-S&T_Low (Short-Turbine-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY923
927	5-S&T_Low (Short-Turbine-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY924
928	5-S&T_Low (Short-Turbine-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY925
929	5-S&T_Low (Short-Turbine-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY926
930	5-S&T_Low (Short-Turbine-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY927
932	5-S&T_Low (Short-Turbine-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY929
933	5-S&T_Low (Short-Turbine-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY930
934	5-S&T_Low (Short-Turbine-UG)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY931
935	5-S&T_Low (Short-Turbine-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY932
936	5-S&T_Low (Short-Turbine-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY933
937	5-S&T_Low (Short-Turbine-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY934
938	5-S&T_Low (Short-Turbine-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY935

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
939	5-S&T_Low (Short-Turbine-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY936
941	5-S&T_Low (Short-Turbine-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY938
942	5-S&T_Low (Short-Turbine-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY939
943	5-S&T_Low (Short-Turbine-UG)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY940
944	5-S&T_Low (Short-Turbine-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY941
945	5-S&T_Low (Short-Turbine-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY942
946	5-S&T_Low (Short-Turbine-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY943
947	5-S&T_Low (Short-Turbine-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY944
948	5-S&T_Low (Short-Turbine-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY945
950	5-S&T_Low (Short-Turbine-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY947
951	5-S&T_Low (Short-Turbine-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY948
997	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY994
998	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY995
999	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY996
1000	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY997
1001	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY998
1002	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY999
1004	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1001
1005	6-S&T_Low (Short-Turbine-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1002
1006	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1003
1007	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1004
1008	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1005
1009	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1006
1010	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1007
1011	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1008
1013	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1010
1014	6-S&T_Low (Short-Turbine-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1011
1015	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1012
1016	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1013
1017	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1014
1018	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1015
1019	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1016
1020	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1017
1022	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1019
1023	6-S&T_Low (Short-Turbine-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1020
1024	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1021
1025	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1022

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1026	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1023
1027	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1024
1028	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1025
1029	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1026
1031	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1028
1032	6-S&T_Low (Short-Turbine-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1029
1033	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1030
1034	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1031
1035	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1032
1036	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1033
1037	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1034
1038	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1035
1040	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1037
1041	6-S&T_Low (Short-Turbine-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1038
1042	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1039
1043	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1040
1044	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1041
1045	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1042
1046	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1043
1047	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1044
1049	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1046
1050	6-S&T_Low (Short-Turbine-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1047
1051	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1048
1052	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1049
1053	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1050
1054	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1051
1055	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1052
1056	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1053
1058	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1055
1059	6-S&T_Low (Short-Turbine-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1056
1060	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1057
1061	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1058
1062	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1059
1063	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1060
1064	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1061
1065	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1062
1067	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1064

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1					
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5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1068	6-S&T_Low (Short-Turbine-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1065
1069	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1066
1070	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1067
1071	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1068
1072	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1069
1073	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1070
1074	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1071
1076	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1073
1077	6-S&T_Low (Short-Turbine-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1074
1078	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1075
1079	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1076
1080	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1077
1081	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1078
1082	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1079
1083	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1080
1085	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1082
1086	6-S&T_Low (Short-Turbine-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1083
1087	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1084
1088	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1085
1089	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1086
1090	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1087
1091	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1088
1092	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1089
1094	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1091
1095	6-S&T_Low (Short-Turbine-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1092
1096	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1093
1097	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1094
1098	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1095
1099	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1096
1100	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1097
1101	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1098
1103	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1100
1104	6-S&T_Low (Short-Turbine-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1101
1105	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1102
1106	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1103
1107	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1104
1108	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1105

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1					
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5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
1109	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1106
1110	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1107
1112	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1109
1113	6-S&T_Low (Short-Turbine-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1110
1114	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1111
1115	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1112
1116	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1113
1117	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1114
1118	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1115
1119	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1116
1121	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1118
1122	6-S&T_Low (Short-Turbine-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1119
1123	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1120
1124	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1121
1125	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1122
1126	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1123
1127	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1124
1128	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1125
1130	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1127
1131	6-S&T_Low (Short-Turbine-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1128
1132	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1129
1133	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1130
1134	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1131
1135	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1132
1136	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1133
1137	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1134
1139	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1136
1140	6-S&T_Low (Short-Turbine-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1137
1186	7-S&T_Low (Short-Recip-UG)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1183
1187	7-S&T_Low (Short-Recip-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1184
1188	7-S&T_Low (Short-Recip-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1185
1189	7-S&T_Low (Short-Recip-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1186
1190	7-S&T_Low (Short-Recip-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1187
1191	7-S&T_Low (Short-Recip-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1188
1193	7-S&T_Low (Short-Recip-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1190
1194	7-S&T_Low (Short-Recip-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1191
1195	7-S&T_Low (Short-Recip-UG)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1192

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1196	7-S&T_Low (Short-Recip-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1193
1197	7-S&T_Low (Short-Recip-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1194
1198	7-S&T_Low (Short-Recip-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1195
1199	7-S&T_Low (Short-Recip-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1196
1200	7-S&T_Low (Short-Recip-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1197
1202	7-S&T_Low (Short-Recip-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1199
1203	7-S&T_Low (Short-Recip-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1200
1204	7-S&T_Low (Short-Recip-UG)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1201
1205	7-S&T_Low (Short-Recip-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1202
1206	7-S&T_Low (Short-Recip-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1203
1207	7-S&T_Low (Short-Recip-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1204
1208	7-S&T_Low (Short-Recip-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1205
1209	7-S&T_Low (Short-Recip-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1206
1211	7-S&T_Low (Short-Recip-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1208
1212	7-S&T_Low (Short-Recip-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1209
1213	7-S&T_Low (Short-Recip-UG)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1210
1214	7-S&T_Low (Short-Recip-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1211
1215	7-S&T_Low (Short-Recip-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1212
1216	7-S&T_Low (Short-Recip-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1213
1217	7-S&T_Low (Short-Recip-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1214
1218	7-S&T_Low (Short-Recip-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1215
1220	7-S&T_Low (Short-Recip-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1217
1221	7-S&T_Low (Short-Recip-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1218
1222	7-S&T_Low (Short-Recip-UG)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1219
1223	7-S&T_Low (Short-Recip-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1220
1224	7-S&T_Low (Short-Recip-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1221
1225	7-S&T_Low (Short-Recip-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1222
1226	7-S&T_Low (Short-Recip-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1223
1227	7-S&T_Low (Short-Recip-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1224
1229	7-S&T_Low (Short-Recip-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1226
1230	7-S&T_Low (Short-Recip-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1227
1231	7-S&T_Low (Short-Recip-UG)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1228
1232	7-S&T_Low (Short-Recip-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1229
1233	7-S&T_Low (Short-Recip-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1230
1234	7-S&T_Low (Short-Recip-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1231
1235	7-S&T_Low (Short-Recip-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1232
1236	7-S&T_Low (Short-Recip-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1233

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1238	7-S&T_Low (Short-Recip-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1235
1239	7-S&T_Low (Short-Recip-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1236
1240	7-S&T_Low (Short-Recip-UG)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1237
1241	7-S&T_Low (Short-Recip-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1238
1242	7-S&T_Low (Short-Recip-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1239
1243	7-S&T_Low (Short-Recip-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1240
1244	7-S&T_Low (Short-Recip-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1241
1245	7-S&T_Low (Short-Recip-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1242
1247	7-S&T_Low (Short-Recip-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1244
1248	7-S&T_Low (Short-Recip-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1245
1249	7-S&T_Low (Short-Recip-UG)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1246
1250	7-S&T_Low (Short-Recip-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1247
1251	7-S&T_Low (Short-Recip-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1248
1252	7-S&T_Low (Short-Recip-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1249
1253	7-S&T_Low (Short-Recip-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1250
1254	7-S&T_Low (Short-Recip-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1251
1256	7-S&T_Low (Short-Recip-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1253
1257	7-S&T_Low (Short-Recip-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1254
1258	7-S&T_Low (Short-Recip-UG)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1255
1259	7-S&T_Low (Short-Recip-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1256
1260	7-S&T_Low (Short-Recip-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1257
1261	7-S&T_Low (Short-Recip-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1258
1262	7-S&T_Low (Short-Recip-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1259
1263	7-S&T_Low (Short-Recip-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1260
1265	7-S&T_Low (Short-Recip-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1262
1266	7-S&T_Low (Short-Recip-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1263
1267	7-S&T_Low (Short-Recip-UG)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1264
1268	7-S&T_Low (Short-Recip-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1265
1269	7-S&T_Low (Short-Recip-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1266
1270	7-S&T_Low (Short-Recip-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1267
1271	7-S&T_Low (Short-Recip-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1268
1272	7-S&T_Low (Short-Recip-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1269
1274	7-S&T_Low (Short-Recip-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1271
1275	7-S&T_Low (Short-Recip-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1272
1276	7-S&T_Low (Short-Recip-UG)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1273
1277	7-S&T_Low (Short-Recip-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1274
1278	7-S&T_Low (Short-Recip-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1275

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1279	7-S&T_Low (Short-Recip-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1276
1280	7-S&T_Low (Short-Recip-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1277
1281	7-S&T_Low (Short-Recip-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1278
1283	7-S&T_Low (Short-Recip-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1280
1284	7-S&T_Low (Short-Recip-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1281
1285	7-S&T_Low (Short-Recip-UG)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1282
1286	7-S&T_Low (Short-Recip-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1283
1287	7-S&T_Low (Short-Recip-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1284
1288	7-S&T_Low (Short-Recip-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1285
1289	7-S&T_Low (Short-Recip-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1286
1290	7-S&T_Low (Short-Recip-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1287
1292	7-S&T_Low (Short-Recip-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1289
1293	7-S&T_Low (Short-Recip-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1290
1294	7-S&T_Low (Short-Recip-UG)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1291
1295	7-S&T_Low (Short-Recip-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1292
1296	7-S&T_Low (Short-Recip-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1293
1297	7-S&T_Low (Short-Recip-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1294
1298	7-S&T_Low (Short-Recip-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1295
1299	7-S&T_Low (Short-Recip-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1296
1301	7-S&T_Low (Short-Recip-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1298
1302	7-S&T_Low (Short-Recip-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1299
1303	7-S&T_Low (Short-Recip-UG)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1300
1304	7-S&T_Low (Short-Recip-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1301
1305	7-S&T_Low (Short-Recip-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1302
1306	7-S&T_Low (Short-Recip-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1303
1307	7-S&T_Low (Short-Recip-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1304
1308	7-S&T_Low (Short-Recip-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1305
1310	7-S&T_Low (Short-Recip-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1307
1311	7-S&T_Low (Short-Recip-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1308
1312	7-S&T_Low (Short-Recip-UG)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1309
1313	7-S&T_Low (Short-Recip-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1310
1314	7-S&T_Low (Short-Recip-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1311
1315	7-S&T_Low (Short-Recip-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1312
1316	7-S&T_Low (Short-Recip-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1313
1317	7-S&T_Low (Short-Recip-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1314
1319	7-S&T_Low (Short-Recip-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1316
1320	7-S&T_Low (Short-Recip-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1317

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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1321	7-S&T_Low (Short-Recip-UG)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1318
1322	7-S&T_Low (Short-Recip-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1319
1323	7-S&T_Low (Short-Recip-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1320
1324	7-S&T_Low (Short-Recip-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1321
1325	7-S&T_Low (Short-Recip-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1322
1326	7-S&T_Low (Short-Recip-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1323
1328	7-S&T_Low (Short-Recip-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1325
1329	7-S&T_Low (Short-Recip-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1326
1375	8-S&T_Low (Short-Recip-Sphere)	2030_H2	Hydrogen (MMBtu/)	15040062.24	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1372
1376	8-S&T_Low (Short-Recip-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1373
1377	8-S&T_Low (Short-Recip-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1374
1378	8-S&T_Low (Short-Recip-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1375
1379	8-S&T_Low (Short-Recip-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1376
1380	8-S&T_Low (Short-Recip-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1377
1382	8-S&T_Low (Short-Recip-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1379
1383	8-S&T_Low (Short-Recip-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1380
1384	8-S&T_Low (Short-Recip-Sphere)	2031_H2	Hydrogen (MMBtu/)	20039788.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1381
1385	8-S&T_Low (Short-Recip-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1382
1386	8-S&T_Low (Short-Recip-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1383
1387	8-S&T_Low (Short-Recip-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1384
1388	8-S&T_Low (Short-Recip-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1385
1389	8-S&T_Low (Short-Recip-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1386
1391	8-S&T_Low (Short-Recip-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1388
1392	8-S&T_Low (Short-Recip-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1389
1393	8-S&T_Low (Short-Recip-Sphere)	2032_H2	Hydrogen (MMBtu/)	26900972.64	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1390
1394	8-S&T_Low (Short-Recip-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1391
1395	8-S&T_Low (Short-Recip-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1392
1396	8-S&T_Low (Short-Recip-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1393
1397	8-S&T_Low (Short-Recip-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1394
1398	8-S&T_Low (Short-Recip-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1395
1400	8-S&T_Low (Short-Recip-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1397
1401	8-S&T_Low (Short-Recip-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1398
1402	8-S&T_Low (Short-Recip-Sphere)	2033_H2	Hydrogen (MMBtu/)	35707219.61	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1399
1403	8-S&T_Low (Short-Recip-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1400
1404	8-S&T_Low (Short-Recip-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1401
1405	8-S&T_Low (Short-Recip-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1402
1406	8-S&T_Low (Short-Recip-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1403

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1					
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1407	8-S&T_Low (Short-Recip-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1404
1409	8-S&T_Low (Short-Recip-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1406
1410	8-S&T_Low (Short-Recip-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1407
1411	8-S&T_Low (Short-Recip-Sphere)	2034_H2	Hydrogen (MMBtu/)	46561611.03	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1408
1412	8-S&T_Low (Short-Recip-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1409
1413	8-S&T_Low (Short-Recip-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1410
1414	8-S&T_Low (Short-Recip-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1411
1415	8-S&T_Low (Short-Recip-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1412
1416	8-S&T_Low (Short-Recip-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1413
1418	8-S&T_Low (Short-Recip-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1415
1419	8-S&T_Low (Short-Recip-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1416
1420	8-S&T_Low (Short-Recip-Sphere)	2035_H2	Hydrogen (MMBtu/)	59735032.76	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1417
1421	8-S&T_Low (Short-Recip-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1418
1422	8-S&T_Low (Short-Recip-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1419
1423	8-S&T_Low (Short-Recip-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1420
1424	8-S&T_Low (Short-Recip-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1421
1425	8-S&T_Low (Short-Recip-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1422
1427	8-S&T_Low (Short-Recip-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1424
1428	8-S&T_Low (Short-Recip-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1425
1429	8-S&T_Low (Short-Recip-Sphere)	2036_H2	Hydrogen (MMBtu/)	73422447.54	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1426
1430	8-S&T_Low (Short-Recip-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1427
1431	8-S&T_Low (Short-Recip-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1428
1432	8-S&T_Low (Short-Recip-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1429
1433	8-S&T_Low (Short-Recip-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1430
1434	8-S&T_Low (Short-Recip-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1431
1436	8-S&T_Low (Short-Recip-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1433
1437	8-S&T_Low (Short-Recip-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1434
1438	8-S&T_Low (Short-Recip-Sphere)	2037_H2	Hydrogen (MMBtu/)	87074152.21	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1435
1439	8-S&T_Low (Short-Recip-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1436
1440	8-S&T_Low (Short-Recip-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1437
1441	8-S&T_Low (Short-Recip-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1438
1442	8-S&T_Low (Short-Recip-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1439
1443	8-S&T_Low (Short-Recip-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1440
1445	8-S&T_Low (Short-Recip-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1442
1446	8-S&T_Low (Short-Recip-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1443
1447	8-S&T_Low (Short-Recip-Sphere)	2038_H2	Hydrogen (MMBtu/)	100699231.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1444
1448	8-S&T_Low (Short-Recip-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1445

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1449	8-S&T_Low (Short-Recip-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1446
1450	8-S&T_Low (Short-Recip-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1447
1451	8-S&T_Low (Short-Recip-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1448
1452	8-S&T_Low (Short-Recip-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1449
1454	8-S&T_Low (Short-Recip-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1451
1455	8-S&T_Low (Short-Recip-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1452
1456	8-S&T_Low (Short-Recip-Sphere)	2039_H2	Hydrogen (MMBtu/)	114375347.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1453
1457	8-S&T_Low (Short-Recip-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1454
1458	8-S&T_Low (Short-Recip-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1455
1459	8-S&T_Low (Short-Recip-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1456
1460	8-S&T_Low (Short-Recip-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1457
1461	8-S&T_Low (Short-Recip-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1458
1463	8-S&T_Low (Short-Recip-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1460
1464	8-S&T_Low (Short-Recip-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1461
1465	8-S&T_Low (Short-Recip-Sphere)	2040_H2	Hydrogen (MMBtu/)	128276215.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1462
1466	8-S&T_Low (Short-Recip-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1463
1467	8-S&T_Low (Short-Recip-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1464
1468	8-S&T_Low (Short-Recip-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1465
1469	8-S&T_Low (Short-Recip-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1466
1470	8-S&T_Low (Short-Recip-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1467
1472	8-S&T_Low (Short-Recip-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1469
1473	8-S&T_Low (Short-Recip-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1470
1474	8-S&T_Low (Short-Recip-Sphere)	2041_H2	Hydrogen (MMBtu/)	143683410.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1471
1475	8-S&T_Low (Short-Recip-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1472
1476	8-S&T_Low (Short-Recip-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1473
1477	8-S&T_Low (Short-Recip-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1474
1478	8-S&T_Low (Short-Recip-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1475
1479	8-S&T_Low (Short-Recip-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1476
1481	8-S&T_Low (Short-Recip-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1478
1482	8-S&T_Low (Short-Recip-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1479
1483	8-S&T_Low (Short-Recip-Sphere)	2042_H2	Hydrogen (MMBtu/)	160384717.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1480
1484	8-S&T_Low (Short-Recip-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1481
1485	8-S&T_Low (Short-Recip-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1482
1486	8-S&T_Low (Short-Recip-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1483
1487	8-S&T_Low (Short-Recip-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1484
1488	8-S&T_Low (Short-Recip-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1485
1490	8-S&T_Low (Short-Recip-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1487

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1491	8-S&T_Low (Short-Recip-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1488
1492	8-S&T_Low (Short-Recip-Sphere)	2043_H2	Hydrogen (MMBtu/)	178390112.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1489
1493	8-S&T_Low (Short-Recip-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1490
1494	8-S&T_Low (Short-Recip-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1491
1495	8-S&T_Low (Short-Recip-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1492
1496	8-S&T_Low (Short-Recip-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1493
1497	8-S&T_Low (Short-Recip-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1494
1499	8-S&T_Low (Short-Recip-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1496
1500	8-S&T_Low (Short-Recip-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1497
1501	8-S&T_Low (Short-Recip-Sphere)	2044_H2	Hydrogen (MMBtu/)	197651320.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1498
1502	8-S&T_Low (Short-Recip-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1499
1503	8-S&T_Low (Short-Recip-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1500
1504	8-S&T_Low (Short-Recip-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1501
1505	8-S&T_Low (Short-Recip-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1502
1506	8-S&T_Low (Short-Recip-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1503
1508	8-S&T_Low (Short-Recip-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1505
1509	8-S&T_Low (Short-Recip-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1506
1510	8-S&T_Low (Short-Recip-Sphere)	2045_H2	Hydrogen (MMBtu/)	218158245.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1507
1511	8-S&T_Low (Short-Recip-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1508
1512	8-S&T_Low (Short-Recip-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1509
1513	8-S&T_Low (Short-Recip-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1510
1514	8-S&T_Low (Short-Recip-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1511
1515	8-S&T_Low (Short-Recip-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1512
1517	8-S&T_Low (Short-Recip-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1514
1518	8-S&T_Low (Short-Recip-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1515
1564	9-S&T_Mid (Long-Turbine-UG)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1561
1565	9-S&T_Mid (Long-Turbine-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1562
1566	9-S&T_Mid (Long-Turbine-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1563
1567	9-S&T_Mid (Long-Turbine-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1564
1568	9-S&T_Mid (Long-Turbine-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1565
1569	9-S&T_Mid (Long-Turbine-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1566
1571	9-S&T_Mid (Long-Turbine-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1568
1572	9-S&T_Mid (Long-Turbine-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1569
1573	9-S&T_Mid (Long-Turbine-UG)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1570
1574	9-S&T_Mid (Long-Turbine-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1571
1575	9-S&T_Mid (Long-Turbine-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1572
1576	9-S&T_Mid (Long-Turbine-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1573

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1577	9-S&T_Mid (Long-Turbine-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1574
1578	9-S&T_Mid (Long-Turbine-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1575
1580	9-S&T_Mid (Long-Turbine-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1577
1581	9-S&T_Mid (Long-Turbine-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1578
1582	9-S&T_Mid (Long-Turbine-UG)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1579
1583	9-S&T_Mid (Long-Turbine-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1580
1584	9-S&T_Mid (Long-Turbine-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1581
1585	9-S&T_Mid (Long-Turbine-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1582
1586	9-S&T_Mid (Long-Turbine-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1583
1587	9-S&T_Mid (Long-Turbine-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1584
1589	9-S&T_Mid (Long-Turbine-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1586
1590	9-S&T_Mid (Long-Turbine-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1587
1591	9-S&T_Mid (Long-Turbine-UG)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1588
1592	9-S&T_Mid (Long-Turbine-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1589
1593	9-S&T_Mid (Long-Turbine-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1590
1594	9-S&T_Mid (Long-Turbine-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1591
1595	9-S&T_Mid (Long-Turbine-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1592
1596	9-S&T_Mid (Long-Turbine-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1593
1598	9-S&T_Mid (Long-Turbine-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1595
1599	9-S&T_Mid (Long-Turbine-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1596
1600	9-S&T_Mid (Long-Turbine-UG)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1597
1601	9-S&T_Mid (Long-Turbine-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1598
1602	9-S&T_Mid (Long-Turbine-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1599
1603	9-S&T_Mid (Long-Turbine-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1600
1604	9-S&T_Mid (Long-Turbine-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1601
1605	9-S&T_Mid (Long-Turbine-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1602
1607	9-S&T_Mid (Long-Turbine-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1604
1608	9-S&T_Mid (Long-Turbine-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1605
1609	9-S&T_Mid (Long-Turbine-UG)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1606
1610	9-S&T_Mid (Long-Turbine-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1607
1611	9-S&T_Mid (Long-Turbine-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1608
1612	9-S&T_Mid (Long-Turbine-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1609
1613	9-S&T_Mid (Long-Turbine-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1610
1614	9-S&T_Mid (Long-Turbine-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1611
1616	9-S&T_Mid (Long-Turbine-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1613
1617	9-S&T_Mid (Long-Turbine-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1614
1618	9-S&T_Mid (Long-Turbine-UG)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1615

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1619	9-S&T_Mid (Long-Turbine-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1616
1620	9-S&T_Mid (Long-Turbine-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1617
1621	9-S&T_Mid (Long-Turbine-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1618
1622	9-S&T_Mid (Long-Turbine-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1619
1623	9-S&T_Mid (Long-Turbine-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1620
1625	9-S&T_Mid (Long-Turbine-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1622
1626	9-S&T_Mid (Long-Turbine-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1623
1627	9-S&T_Mid (Long-Turbine-UG)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1624
1628	9-S&T_Mid (Long-Turbine-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1625
1629	9-S&T_Mid (Long-Turbine-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1626
1630	9-S&T_Mid (Long-Turbine-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1627
1631	9-S&T_Mid (Long-Turbine-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1628
1632	9-S&T_Mid (Long-Turbine-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1629
1634	9-S&T_Mid (Long-Turbine-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1631
1635	9-S&T_Mid (Long-Turbine-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1632
1636	9-S&T_Mid (Long-Turbine-UG)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1633
1637	9-S&T_Mid (Long-Turbine-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1634
1638	9-S&T_Mid (Long-Turbine-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1635
1639	9-S&T_Mid (Long-Turbine-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1636
1640	9-S&T_Mid (Long-Turbine-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1637
1641	9-S&T_Mid (Long-Turbine-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1638
1643	9-S&T_Mid (Long-Turbine-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1640
1644	9-S&T_Mid (Long-Turbine-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1641
1645	9-S&T_Mid (Long-Turbine-UG)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1642
1646	9-S&T_Mid (Long-Turbine-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1643
1647	9-S&T_Mid (Long-Turbine-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1644
1648	9-S&T_Mid (Long-Turbine-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1645
1649	9-S&T_Mid (Long-Turbine-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1646
1650	9-S&T_Mid (Long-Turbine-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1647
1652	9-S&T_Mid (Long-Turbine-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1649
1653	9-S&T_Mid (Long-Turbine-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1650
1654	9-S&T_Mid (Long-Turbine-UG)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1651
1655	9-S&T_Mid (Long-Turbine-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1652
1656	9-S&T_Mid (Long-Turbine-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1653
1657	9-S&T_Mid (Long-Turbine-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1654
1658	9-S&T_Mid (Long-Turbine-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1655
1659	9-S&T_Mid (Long-Turbine-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1656

	A	C	D	E	F
1					
2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1661	9-S&T_Mid (Long-Turbine-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1658
1662	9-S&T_Mid (Long-Turbine-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1659
1663	9-S&T_Mid (Long-Turbine-UG)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1660
1664	9-S&T_Mid (Long-Turbine-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1661
1665	9-S&T_Mid (Long-Turbine-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1662
1666	9-S&T_Mid (Long-Turbine-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1663
1667	9-S&T_Mid (Long-Turbine-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1664
1668	9-S&T_Mid (Long-Turbine-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1665
1670	9-S&T_Mid (Long-Turbine-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1667
1671	9-S&T_Mid (Long-Turbine-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1668
1672	9-S&T_Mid (Long-Turbine-UG)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1669
1673	9-S&T_Mid (Long-Turbine-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1670
1674	9-S&T_Mid (Long-Turbine-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1671
1675	9-S&T_Mid (Long-Turbine-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1672
1676	9-S&T_Mid (Long-Turbine-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1673
1677	9-S&T_Mid (Long-Turbine-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1674
1679	9-S&T_Mid (Long-Turbine-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1676
1680	9-S&T_Mid (Long-Turbine-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1677
1681	9-S&T_Mid (Long-Turbine-UG)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1678
1682	9-S&T_Mid (Long-Turbine-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1679
1683	9-S&T_Mid (Long-Turbine-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1680
1684	9-S&T_Mid (Long-Turbine-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1681
1685	9-S&T_Mid (Long-Turbine-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1682
1686	9-S&T_Mid (Long-Turbine-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1683
1688	9-S&T_Mid (Long-Turbine-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1685
1689	9-S&T_Mid (Long-Turbine-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1686
1690	9-S&T_Mid (Long-Turbine-UG)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1687
1691	9-S&T_Mid (Long-Turbine-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1688
1692	9-S&T_Mid (Long-Turbine-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1689
1693	9-S&T_Mid (Long-Turbine-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1690
1694	9-S&T_Mid (Long-Turbine-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1691
1695	9-S&T_Mid (Long-Turbine-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1692
1697	9-S&T_Mid (Long-Turbine-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1694
1698	9-S&T_Mid (Long-Turbine-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1695
1699	9-S&T_Mid (Long-Turbine-UG)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1696
1700	9-S&T_Mid (Long-Turbine-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1697
1701	9-S&T_Mid (Long-Turbine-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1698

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1702	9-S&T_Mid (Long-Turbine-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1699
1703	9-S&T_Mid (Long-Turbine-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1700
1704	9-S&T_Mid (Long-Turbine-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1701
1706	9-S&T_Mid (Long-Turbine-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1703
1707	9-S&T_Mid (Long-Turbine-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1704
1753	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1750
1754	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1751
1755	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1752
1756	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1753
1757	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1754
1758	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1755
1760	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1757
1761	10-S&T_Mid (Long-Turbine-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1758
1762	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1759
1763	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1760
1764	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1761
1765	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1762
1766	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1763
1767	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1764
1769	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1766
1770	10-S&T_Mid (Long-Turbine-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1767
1771	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1768
1772	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1769
1773	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1770
1774	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1771
1775	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1772
1776	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1773
1778	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1775
1779	10-S&T_Mid (Long-Turbine-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1776
1780	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1777
1781	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1778
1782	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1779
1783	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1780
1784	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1781
1785	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1782
1787	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1784
1788	10-S&T_Mid (Long-Turbine-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1785

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1789	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1786
1790	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1787
1791	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1788
1792	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1789
1793	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1790
1794	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1791
1796	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1793
1797	10-S&T_Mid (Long-Turbine-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1794
1798	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1795
1799	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1796
1800	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1797
1801	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1798
1802	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1799
1803	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1800
1805	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1802
1806	10-S&T_Mid (Long-Turbine-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1803
1807	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1804
1808	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1805
1809	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1806
1810	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1807
1811	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1808
1812	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1809
1814	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1811
1815	10-S&T_Mid (Long-Turbine-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1812
1816	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1813
1817	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1814
1818	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1815
1819	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1816
1820	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1817
1821	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1818
1823	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1820
1824	10-S&T_Mid (Long-Turbine-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1821
1825	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1822
1826	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1823
1827	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1824
1828	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1825
1829	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1826

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1830	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1827
1832	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1829
1833	10-S&T_Mid (Long-Turbine-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1830
1834	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1831
1835	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1832
1836	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1833
1837	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1834
1838	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1835
1839	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1836
1841	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1838
1842	10-S&T_Mid (Long-Turbine-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1839
1843	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1840
1844	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1841
1845	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1842
1846	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1843
1847	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1844
1848	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1845
1850	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1847
1851	10-S&T_Mid (Long-Turbine-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1848
1852	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1849
1853	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1850
1854	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1851
1855	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1852
1856	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1853
1857	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1854
1859	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1856
1860	10-S&T_Mid (Long-Turbine-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1857
1861	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1858
1862	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1859
1863	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1860
1864	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1861
1865	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1862
1866	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1863
1868	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1865
1869	10-S&T_Mid (Long-Turbine-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1866
1870	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1867
1871	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1868

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1					
2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1872	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1869
1873	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1870
1874	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1871
1875	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1872
1877	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1874
1878	10-S&T_Mid (Long-Turbine-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1875
1879	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1876
1880	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1877
1881	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1878
1882	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1879
1883	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1880
1884	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1881
1886	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1883
1887	10-S&T_Mid (Long-Turbine-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1884
1888	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1885
1889	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1886
1890	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1887
1891	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1888
1892	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1889
1893	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1890
1895	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1892
1896	10-S&T_Mid (Long-Turbine-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1893
1942	11-S&T_Mid (Long-Recip-UG)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1939
1943	11-S&T_Mid (Long-Recip-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1940
1944	11-S&T_Mid (Long-Recip-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1941
1945	11-S&T_Mid (Long-Recip-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1942
1946	11-S&T_Mid (Long-Recip-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1943
1947	11-S&T_Mid (Long-Recip-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1944
1949	11-S&T_Mid (Long-Recip-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1946
1950	11-S&T_Mid (Long-Recip-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1947
1951	11-S&T_Mid (Long-Recip-UG)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1948
1952	11-S&T_Mid (Long-Recip-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1949
1953	11-S&T_Mid (Long-Recip-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1950
1954	11-S&T_Mid (Long-Recip-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1951
1955	11-S&T_Mid (Long-Recip-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1952
1956	11-S&T_Mid (Long-Recip-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1953
1958	11-S&T_Mid (Long-Recip-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1955

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1					
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
1959	11-S&T_Mid (Long-Recip-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1956
1960	11-S&T_Mid (Long-Recip-UG)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1957
1961	11-S&T_Mid (Long-Recip-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1958
1962	11-S&T_Mid (Long-Recip-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1959
1963	11-S&T_Mid (Long-Recip-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1960
1964	11-S&T_Mid (Long-Recip-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1961
1965	11-S&T_Mid (Long-Recip-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1962
1967	11-S&T_Mid (Long-Recip-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1964
1968	11-S&T_Mid (Long-Recip-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1965
1969	11-S&T_Mid (Long-Recip-UG)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1966
1970	11-S&T_Mid (Long-Recip-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1967
1971	11-S&T_Mid (Long-Recip-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1968
1972	11-S&T_Mid (Long-Recip-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1969
1973	11-S&T_Mid (Long-Recip-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1970
1974	11-S&T_Mid (Long-Recip-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1971
1976	11-S&T_Mid (Long-Recip-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1973
1977	11-S&T_Mid (Long-Recip-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1974
1978	11-S&T_Mid (Long-Recip-UG)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1975
1979	11-S&T_Mid (Long-Recip-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1976
1980	11-S&T_Mid (Long-Recip-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1977
1981	11-S&T_Mid (Long-Recip-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1978
1982	11-S&T_Mid (Long-Recip-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1979
1983	11-S&T_Mid (Long-Recip-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1980
1985	11-S&T_Mid (Long-Recip-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1982
1986	11-S&T_Mid (Long-Recip-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1983
1987	11-S&T_Mid (Long-Recip-UG)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1984
1988	11-S&T_Mid (Long-Recip-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1985
1989	11-S&T_Mid (Long-Recip-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1986
1990	11-S&T_Mid (Long-Recip-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1987
1991	11-S&T_Mid (Long-Recip-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1988
1992	11-S&T_Mid (Long-Recip-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1989
1994	11-S&T_Mid (Long-Recip-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1991
1995	11-S&T_Mid (Long-Recip-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1992
1996	11-S&T_Mid (Long-Recip-UG)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1993
1997	11-S&T_Mid (Long-Recip-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1994
1998	11-S&T_Mid (Long-Recip-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1995
1999	11-S&T_Mid (Long-Recip-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1996

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2000	11-S&T_Mid (Long-Recip-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1997
2001	11-S&T_Mid (Long-Recip-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1998
2003	11-S&T_Mid (Long-Recip-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2000
2004	11-S&T_Mid (Long-Recip-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2001
2005	11-S&T_Mid (Long-Recip-UG)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2002
2006	11-S&T_Mid (Long-Recip-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2003
2007	11-S&T_Mid (Long-Recip-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2004
2008	11-S&T_Mid (Long-Recip-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2005
2009	11-S&T_Mid (Long-Recip-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2006
2010	11-S&T_Mid (Long-Recip-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2007
2012	11-S&T_Mid (Long-Recip-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2009
2013	11-S&T_Mid (Long-Recip-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2010
2014	11-S&T_Mid (Long-Recip-UG)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2011
2015	11-S&T_Mid (Long-Recip-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2012
2016	11-S&T_Mid (Long-Recip-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2013
2017	11-S&T_Mid (Long-Recip-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2014
2018	11-S&T_Mid (Long-Recip-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2015
2019	11-S&T_Mid (Long-Recip-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2016
2021	11-S&T_Mid (Long-Recip-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2018
2022	11-S&T_Mid (Long-Recip-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2019
2023	11-S&T_Mid (Long-Recip-UG)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2020
2024	11-S&T_Mid (Long-Recip-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2021
2025	11-S&T_Mid (Long-Recip-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2022
2026	11-S&T_Mid (Long-Recip-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2023
2027	11-S&T_Mid (Long-Recip-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2024
2028	11-S&T_Mid (Long-Recip-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2025
2030	11-S&T_Mid (Long-Recip-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2027
2031	11-S&T_Mid (Long-Recip-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2028
2032	11-S&T_Mid (Long-Recip-UG)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2029
2033	11-S&T_Mid (Long-Recip-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2030
2034	11-S&T_Mid (Long-Recip-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2031
2035	11-S&T_Mid (Long-Recip-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2032
2036	11-S&T_Mid (Long-Recip-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2033
2037	11-S&T_Mid (Long-Recip-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2034
2039	11-S&T_Mid (Long-Recip-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2036
2040	11-S&T_Mid (Long-Recip-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2037
2041	11-S&T_Mid (Long-Recip-UG)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2038

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2042	11-S&T_Mid (Long-Recip-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2039
2043	11-S&T_Mid (Long-Recip-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2040
2044	11-S&T_Mid (Long-Recip-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2041
2045	11-S&T_Mid (Long-Recip-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2042
2046	11-S&T_Mid (Long-Recip-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2043
2048	11-S&T_Mid (Long-Recip-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2045
2049	11-S&T_Mid (Long-Recip-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2046
2050	11-S&T_Mid (Long-Recip-UG)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2047
2051	11-S&T_Mid (Long-Recip-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2048
2052	11-S&T_Mid (Long-Recip-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2049
2053	11-S&T_Mid (Long-Recip-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2050
2054	11-S&T_Mid (Long-Recip-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2051
2055	11-S&T_Mid (Long-Recip-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2052
2057	11-S&T_Mid (Long-Recip-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2054
2058	11-S&T_Mid (Long-Recip-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2055
2059	11-S&T_Mid (Long-Recip-UG)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2056
2060	11-S&T_Mid (Long-Recip-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2057
2061	11-S&T_Mid (Long-Recip-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2058
2062	11-S&T_Mid (Long-Recip-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2059
2063	11-S&T_Mid (Long-Recip-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2060
2064	11-S&T_Mid (Long-Recip-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2061
2066	11-S&T_Mid (Long-Recip-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2063
2067	11-S&T_Mid (Long-Recip-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2064
2068	11-S&T_Mid (Long-Recip-UG)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2065
2069	11-S&T_Mid (Long-Recip-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2066
2070	11-S&T_Mid (Long-Recip-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2067
2071	11-S&T_Mid (Long-Recip-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2068
2072	11-S&T_Mid (Long-Recip-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2069
2073	11-S&T_Mid (Long-Recip-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2070
2075	11-S&T_Mid (Long-Recip-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2072
2076	11-S&T_Mid (Long-Recip-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2073
2077	11-S&T_Mid (Long-Recip-UG)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2074
2078	11-S&T_Mid (Long-Recip-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2075
2079	11-S&T_Mid (Long-Recip-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2076
2080	11-S&T_Mid (Long-Recip-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2077
2081	11-S&T_Mid (Long-Recip-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2078
2082	11-S&T_Mid (Long-Recip-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2079

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2084	11-S&T_Mid (Long-Recip-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2081
2085	11-S&T_Mid (Long-Recip-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2082
2131	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2128
2132	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2129
2133	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2130
2134	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2131
2135	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2132
2136	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2133
2138	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2135
2139	12-S&T_Mid (Long-Recip-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2136
2140	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2137
2141	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2138
2142	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2139
2143	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2140
2144	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2141
2145	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2142
2147	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2144
2148	12-S&T_Mid (Long-Recip-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2145
2149	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2146
2150	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2147
2151	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2148
2152	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2149
2153	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2150
2154	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2151
2156	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2153
2157	12-S&T_Mid (Long-Recip-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2154
2158	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2155
2159	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2156
2160	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2157
2161	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2158
2162	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2159
2163	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2160
2165	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2162
2166	12-S&T_Mid (Long-Recip-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2163
2167	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2164
2168	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2165
2169	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2166

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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2170	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2167
2171	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2168
2172	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2169
2174	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2171
2175	12-S&T_Mid (Long-Recip-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2172
2176	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2173
2177	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2174
2178	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2175
2179	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2176
2180	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2177
2181	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2178
2183	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2180
2184	12-S&T_Mid (Long-Recip-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2181
2185	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2182
2186	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2183
2187	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2184
2188	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2185
2189	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2186
2190	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2187
2192	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2189
2193	12-S&T_Mid (Long-Recip-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2190
2194	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2191
2195	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2192
2196	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2193
2197	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2194
2198	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2195
2199	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2196
2201	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2198
2202	12-S&T_Mid (Long-Recip-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2199
2203	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2200
2204	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2201
2205	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2202
2206	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2203
2207	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2204
2208	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2205
2210	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2207
2211	12-S&T_Mid (Long-Recip-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2208

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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2212	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2209
2213	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2210
2214	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2211
2215	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2212
2216	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2213
2217	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2214
2219	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2216
2220	12-S&T_Mid (Long-Recip-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2217
2221	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2218
2222	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2219
2223	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2220
2224	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2221
2225	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2222
2226	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2223
2228	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2225
2229	12-S&T_Mid (Long-Recip-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2226
2230	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2227
2231	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2228
2232	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2229
2233	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2230
2234	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2231
2235	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2232
2237	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2234
2238	12-S&T_Mid (Long-Recip-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2235
2239	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2236
2240	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2237
2241	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2238
2242	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2239
2243	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2240
2244	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2241
2246	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2243
2247	12-S&T_Mid (Long-Recip-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2244
2248	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2245
2249	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2246
2250	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2247
2251	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2248
2252	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2249

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2253	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2250
2255	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2252
2256	12-S&T_Mid (Long-Recip-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2253
2257	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2254
2258	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2255
2259	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2256
2260	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2257
2261	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2258
2262	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2259
2264	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2261
2265	12-S&T_Mid (Long-Recip-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2262
2266	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2263
2267	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2264
2268	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2265
2269	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2266
2270	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2267
2271	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2268
2273	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2270
2274	12-S&T_Mid (Long-Recip-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2271
2320	13-S&T_Mid (Short-Turbine-UG)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2317
2321	13-S&T_Mid (Short-Turbine-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2318
2322	13-S&T_Mid (Short-Turbine-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2319
2323	13-S&T_Mid (Short-Turbine-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2320
2324	13-S&T_Mid (Short-Turbine-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2321
2325	13-S&T_Mid (Short-Turbine-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2322
2327	13-S&T_Mid (Short-Turbine-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2324
2328	13-S&T_Mid (Short-Turbine-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2325
2329	13-S&T_Mid (Short-Turbine-UG)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2326
2330	13-S&T_Mid (Short-Turbine-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2327
2331	13-S&T_Mid (Short-Turbine-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2328
2332	13-S&T_Mid (Short-Turbine-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2329
2333	13-S&T_Mid (Short-Turbine-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2330
2334	13-S&T_Mid (Short-Turbine-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2331
2336	13-S&T_Mid (Short-Turbine-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2333
2337	13-S&T_Mid (Short-Turbine-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2334
2338	13-S&T_Mid (Short-Turbine-UG)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2335
2339	13-S&T_Mid (Short-Turbine-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2336

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2340	13-S&T_Mid (Short-Turbine-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2337
2341	13-S&T_Mid (Short-Turbine-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2338
2342	13-S&T_Mid (Short-Turbine-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2339
2343	13-S&T_Mid (Short-Turbine-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2340
2345	13-S&T_Mid (Short-Turbine-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2342
2346	13-S&T_Mid (Short-Turbine-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2343
2347	13-S&T_Mid (Short-Turbine-UG)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2344
2348	13-S&T_Mid (Short-Turbine-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2345
2349	13-S&T_Mid (Short-Turbine-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2346
2350	13-S&T_Mid (Short-Turbine-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2347
2351	13-S&T_Mid (Short-Turbine-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2348
2352	13-S&T_Mid (Short-Turbine-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2349
2354	13-S&T_Mid (Short-Turbine-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2351
2355	13-S&T_Mid (Short-Turbine-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2352
2356	13-S&T_Mid (Short-Turbine-UG)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2353
2357	13-S&T_Mid (Short-Turbine-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2354
2358	13-S&T_Mid (Short-Turbine-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2355
2359	13-S&T_Mid (Short-Turbine-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2356
2360	13-S&T_Mid (Short-Turbine-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2357
2361	13-S&T_Mid (Short-Turbine-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2358
2363	13-S&T_Mid (Short-Turbine-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2360
2364	13-S&T_Mid (Short-Turbine-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2361
2365	13-S&T_Mid (Short-Turbine-UG)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2362
2366	13-S&T_Mid (Short-Turbine-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2363
2367	13-S&T_Mid (Short-Turbine-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2364
2368	13-S&T_Mid (Short-Turbine-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2365
2369	13-S&T_Mid (Short-Turbine-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2366
2370	13-S&T_Mid (Short-Turbine-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2367
2372	13-S&T_Mid (Short-Turbine-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2369
2373	13-S&T_Mid (Short-Turbine-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2370
2374	13-S&T_Mid (Short-Turbine-UG)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2371
2375	13-S&T_Mid (Short-Turbine-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2372
2376	13-S&T_Mid (Short-Turbine-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2373
2377	13-S&T_Mid (Short-Turbine-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2374
2378	13-S&T_Mid (Short-Turbine-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2375
2379	13-S&T_Mid (Short-Turbine-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2376
2381	13-S&T_Mid (Short-Turbine-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2378

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2382	13-S&T_Mid (Short-Turbine-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2379
2383	13-S&T_Mid (Short-Turbine-UG)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2380
2384	13-S&T_Mid (Short-Turbine-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2381
2385	13-S&T_Mid (Short-Turbine-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2382
2386	13-S&T_Mid (Short-Turbine-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2383
2387	13-S&T_Mid (Short-Turbine-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2384
2388	13-S&T_Mid (Short-Turbine-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2385
2390	13-S&T_Mid (Short-Turbine-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2387
2391	13-S&T_Mid (Short-Turbine-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2388
2392	13-S&T_Mid (Short-Turbine-UG)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2389
2393	13-S&T_Mid (Short-Turbine-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2390
2394	13-S&T_Mid (Short-Turbine-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2391
2395	13-S&T_Mid (Short-Turbine-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2392
2396	13-S&T_Mid (Short-Turbine-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2393
2397	13-S&T_Mid (Short-Turbine-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2394
2399	13-S&T_Mid (Short-Turbine-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2396
2400	13-S&T_Mid (Short-Turbine-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2397
2401	13-S&T_Mid (Short-Turbine-UG)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2398
2402	13-S&T_Mid (Short-Turbine-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2399
2403	13-S&T_Mid (Short-Turbine-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2400
2404	13-S&T_Mid (Short-Turbine-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2401
2405	13-S&T_Mid (Short-Turbine-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2402
2406	13-S&T_Mid (Short-Turbine-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2403
2408	13-S&T_Mid (Short-Turbine-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2405
2409	13-S&T_Mid (Short-Turbine-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2406
2410	13-S&T_Mid (Short-Turbine-UG)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2407
2411	13-S&T_Mid (Short-Turbine-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2408
2412	13-S&T_Mid (Short-Turbine-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2409
2413	13-S&T_Mid (Short-Turbine-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2410
2414	13-S&T_Mid (Short-Turbine-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2411
2415	13-S&T_Mid (Short-Turbine-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2412
2417	13-S&T_Mid (Short-Turbine-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2414
2418	13-S&T_Mid (Short-Turbine-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2415
2419	13-S&T_Mid (Short-Turbine-UG)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2416
2420	13-S&T_Mid (Short-Turbine-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2417
2421	13-S&T_Mid (Short-Turbine-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2418
2422	13-S&T_Mid (Short-Turbine-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2419

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2423	13-S&T_Mid (Short-Turbine-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2420
2424	13-S&T_Mid (Short-Turbine-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2421
2426	13-S&T_Mid (Short-Turbine-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2423
2427	13-S&T_Mid (Short-Turbine-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2424
2428	13-S&T_Mid (Short-Turbine-UG)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2425
2429	13-S&T_Mid (Short-Turbine-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2426
2430	13-S&T_Mid (Short-Turbine-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2427
2431	13-S&T_Mid (Short-Turbine-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2428
2432	13-S&T_Mid (Short-Turbine-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2429
2433	13-S&T_Mid (Short-Turbine-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2430
2435	13-S&T_Mid (Short-Turbine-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2432
2436	13-S&T_Mid (Short-Turbine-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2433
2437	13-S&T_Mid (Short-Turbine-UG)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2434
2438	13-S&T_Mid (Short-Turbine-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2435
2439	13-S&T_Mid (Short-Turbine-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2436
2440	13-S&T_Mid (Short-Turbine-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2437
2441	13-S&T_Mid (Short-Turbine-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2438
2442	13-S&T_Mid (Short-Turbine-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2439
2444	13-S&T_Mid (Short-Turbine-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2441
2445	13-S&T_Mid (Short-Turbine-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2442
2446	13-S&T_Mid (Short-Turbine-UG)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2443
2447	13-S&T_Mid (Short-Turbine-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2444
2448	13-S&T_Mid (Short-Turbine-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2445
2449	13-S&T_Mid (Short-Turbine-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2446
2450	13-S&T_Mid (Short-Turbine-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2447
2451	13-S&T_Mid (Short-Turbine-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2448
2453	13-S&T_Mid (Short-Turbine-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2450
2454	13-S&T_Mid (Short-Turbine-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2451
2455	13-S&T_Mid (Short-Turbine-UG)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2452
2456	13-S&T_Mid (Short-Turbine-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2453
2457	13-S&T_Mid (Short-Turbine-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2454
2458	13-S&T_Mid (Short-Turbine-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2455
2459	13-S&T_Mid (Short-Turbine-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2456
2460	13-S&T_Mid (Short-Turbine-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2457
2462	13-S&T_Mid (Short-Turbine-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2459
2463	13-S&T_Mid (Short-Turbine-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2460
2509	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2506

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1					
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2510	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2507
2511	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2508
2512	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2509
2513	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2510
2514	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2511
2516	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2513
2517	14-S&T_Mid (Short-Turbine-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2514
2518	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2515
2519	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2516
2520	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2517
2521	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2518
2522	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2519
2523	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2520
2525	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2522
2526	14-S&T_Mid (Short-Turbine-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2523
2527	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2524
2528	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2525
2529	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2526
2530	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2527
2531	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2528
2532	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2529
2534	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2531
2535	14-S&T_Mid (Short-Turbine-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2532
2536	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2533
2537	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2534
2538	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2535
2539	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2536
2540	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2537
2541	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2538
2543	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2540
2544	14-S&T_Mid (Short-Turbine-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2541
2545	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2542
2546	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2543
2547	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2544
2548	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2545
2549	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2546
2550	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2547

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2552	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2549
2553	14-S&T_Mid (Short-Turbine-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2550
2554	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2551
2555	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2552
2556	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2553
2557	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2554
2558	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2555
2559	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2556
2561	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2558
2562	14-S&T_Mid (Short-Turbine-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2559
2563	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2560
2564	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2561
2565	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2562
2566	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2563
2567	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2564
2568	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2565
2570	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2567
2571	14-S&T_Mid (Short-Turbine-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2568
2572	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2569
2573	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2570
2574	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2571
2575	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2572
2576	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2573
2577	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2574
2579	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2576
2580	14-S&T_Mid (Short-Turbine-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2577
2581	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2578
2582	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2579
2583	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2580
2584	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2581
2585	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2582
2586	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2583
2588	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2585
2589	14-S&T_Mid (Short-Turbine-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2586
2590	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2587
2591	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2588
2592	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2589

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2593	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2590
2594	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2591
2595	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2592
2597	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2594
2598	14-S&T_Mid (Short-Turbine-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2595
2599	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2596
2600	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2597
2601	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2598
2602	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2599
2603	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2600
2604	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2601
2606	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2603
2607	14-S&T_Mid (Short-Turbine-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2604
2608	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2605
2609	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2606
2610	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2607
2611	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2608
2612	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2609
2613	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2610
2615	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2612
2616	14-S&T_Mid (Short-Turbine-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2613
2617	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2614
2618	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2615
2619	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2616
2620	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2617
2621	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2618
2622	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2619
2624	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2621
2625	14-S&T_Mid (Short-Turbine-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2622
2626	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2623
2627	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2624
2628	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2625
2629	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2626
2630	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2627
2631	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2628
2633	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2630
2634	14-S&T_Mid (Short-Turbine-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2631

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2635	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2632
2636	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2633
2637	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2634
2638	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2635
2639	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2636
2640	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2637
2642	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2639
2643	14-S&T_Mid (Short-Turbine-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2640
2644	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2641
2645	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2642
2646	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2643
2647	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2644
2648	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2645
2649	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2646
2651	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2648
2652	14-S&T_Mid (Short-Turbine-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2649
2698	15-S&T_Mid (Short-Recip-UG)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2695
2699	15-S&T_Mid (Short-Recip-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2696
2700	15-S&T_Mid (Short-Recip-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2697
2701	15-S&T_Mid (Short-Recip-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2698
2702	15-S&T_Mid (Short-Recip-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2699
2703	15-S&T_Mid (Short-Recip-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2700
2705	15-S&T_Mid (Short-Recip-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2702
2706	15-S&T_Mid (Short-Recip-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2703
2707	15-S&T_Mid (Short-Recip-UG)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2704
2708	15-S&T_Mid (Short-Recip-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2705
2709	15-S&T_Mid (Short-Recip-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2706
2710	15-S&T_Mid (Short-Recip-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2707
2711	15-S&T_Mid (Short-Recip-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2708
2712	15-S&T_Mid (Short-Recip-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2709
2714	15-S&T_Mid (Short-Recip-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2711
2715	15-S&T_Mid (Short-Recip-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2712
2716	15-S&T_Mid (Short-Recip-UG)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2713
2717	15-S&T_Mid (Short-Recip-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2714
2718	15-S&T_Mid (Short-Recip-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2715
2719	15-S&T_Mid (Short-Recip-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2716
2720	15-S&T_Mid (Short-Recip-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2717

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2721	15-S&T_Mid (Short-Recip-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2718
2723	15-S&T_Mid (Short-Recip-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2720
2724	15-S&T_Mid (Short-Recip-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2721
2725	15-S&T_Mid (Short-Recip-UG)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2722
2726	15-S&T_Mid (Short-Recip-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2723
2727	15-S&T_Mid (Short-Recip-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2724
2728	15-S&T_Mid (Short-Recip-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2725
2729	15-S&T_Mid (Short-Recip-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2726
2730	15-S&T_Mid (Short-Recip-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2727
2732	15-S&T_Mid (Short-Recip-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2729
2733	15-S&T_Mid (Short-Recip-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2730
2734	15-S&T_Mid (Short-Recip-UG)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2731
2735	15-S&T_Mid (Short-Recip-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2732
2736	15-S&T_Mid (Short-Recip-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2733
2737	15-S&T_Mid (Short-Recip-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2734
2738	15-S&T_Mid (Short-Recip-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2735
2739	15-S&T_Mid (Short-Recip-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2736
2741	15-S&T_Mid (Short-Recip-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2738
2742	15-S&T_Mid (Short-Recip-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2739
2743	15-S&T_Mid (Short-Recip-UG)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2740
2744	15-S&T_Mid (Short-Recip-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2741
2745	15-S&T_Mid (Short-Recip-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2742
2746	15-S&T_Mid (Short-Recip-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2743
2747	15-S&T_Mid (Short-Recip-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2744
2748	15-S&T_Mid (Short-Recip-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2745
2750	15-S&T_Mid (Short-Recip-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2747
2751	15-S&T_Mid (Short-Recip-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2748
2752	15-S&T_Mid (Short-Recip-UG)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2749
2753	15-S&T_Mid (Short-Recip-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2750
2754	15-S&T_Mid (Short-Recip-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2751
2755	15-S&T_Mid (Short-Recip-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2752
2756	15-S&T_Mid (Short-Recip-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2753
2757	15-S&T_Mid (Short-Recip-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2754
2759	15-S&T_Mid (Short-Recip-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2756
2760	15-S&T_Mid (Short-Recip-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2757
2761	15-S&T_Mid (Short-Recip-UG)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2758
2762	15-S&T_Mid (Short-Recip-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2759

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2763	15-S&T_Mid (Short-Recip-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2760
2764	15-S&T_Mid (Short-Recip-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2761
2765	15-S&T_Mid (Short-Recip-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2762
2766	15-S&T_Mid (Short-Recip-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2763
2768	15-S&T_Mid (Short-Recip-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2765
2769	15-S&T_Mid (Short-Recip-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2766
2770	15-S&T_Mid (Short-Recip-UG)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2767
2771	15-S&T_Mid (Short-Recip-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2768
2772	15-S&T_Mid (Short-Recip-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2769
2773	15-S&T_Mid (Short-Recip-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2770
2774	15-S&T_Mid (Short-Recip-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2771
2775	15-S&T_Mid (Short-Recip-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2772
2777	15-S&T_Mid (Short-Recip-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2774
2778	15-S&T_Mid (Short-Recip-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2775
2779	15-S&T_Mid (Short-Recip-UG)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2776
2780	15-S&T_Mid (Short-Recip-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2777
2781	15-S&T_Mid (Short-Recip-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2778
2782	15-S&T_Mid (Short-Recip-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2779
2783	15-S&T_Mid (Short-Recip-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2780
2784	15-S&T_Mid (Short-Recip-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2781
2786	15-S&T_Mid (Short-Recip-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2783
2787	15-S&T_Mid (Short-Recip-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2784
2788	15-S&T_Mid (Short-Recip-UG)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2785
2789	15-S&T_Mid (Short-Recip-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2786
2790	15-S&T_Mid (Short-Recip-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2787
2791	15-S&T_Mid (Short-Recip-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2788
2792	15-S&T_Mid (Short-Recip-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2789
2793	15-S&T_Mid (Short-Recip-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2790
2795	15-S&T_Mid (Short-Recip-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2792
2796	15-S&T_Mid (Short-Recip-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2793
2797	15-S&T_Mid (Short-Recip-UG)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2794
2798	15-S&T_Mid (Short-Recip-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2795
2799	15-S&T_Mid (Short-Recip-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2796
2800	15-S&T_Mid (Short-Recip-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2797
2801	15-S&T_Mid (Short-Recip-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2798
2802	15-S&T_Mid (Short-Recip-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2799
2804	15-S&T_Mid (Short-Recip-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2801

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5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
2805	15-S&T_Mid (Short-Recip-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2802
2806	15-S&T_Mid (Short-Recip-UG)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2803
2807	15-S&T_Mid (Short-Recip-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2804
2808	15-S&T_Mid (Short-Recip-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2805
2809	15-S&T_Mid (Short-Recip-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2806
2810	15-S&T_Mid (Short-Recip-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2807
2811	15-S&T_Mid (Short-Recip-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2808
2813	15-S&T_Mid (Short-Recip-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2810
2814	15-S&T_Mid (Short-Recip-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2811
2815	15-S&T_Mid (Short-Recip-UG)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2812
2816	15-S&T_Mid (Short-Recip-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2813
2817	15-S&T_Mid (Short-Recip-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2814
2818	15-S&T_Mid (Short-Recip-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2815
2819	15-S&T_Mid (Short-Recip-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2816
2820	15-S&T_Mid (Short-Recip-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2817
2822	15-S&T_Mid (Short-Recip-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2819
2823	15-S&T_Mid (Short-Recip-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2820
2824	15-S&T_Mid (Short-Recip-UG)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2821
2825	15-S&T_Mid (Short-Recip-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2822
2826	15-S&T_Mid (Short-Recip-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2823
2827	15-S&T_Mid (Short-Recip-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2824
2828	15-S&T_Mid (Short-Recip-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2825
2829	15-S&T_Mid (Short-Recip-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2826
2831	15-S&T_Mid (Short-Recip-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2828
2832	15-S&T_Mid (Short-Recip-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2829
2833	15-S&T_Mid (Short-Recip-UG)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2830
2834	15-S&T_Mid (Short-Recip-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2831
2835	15-S&T_Mid (Short-Recip-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2832
2836	15-S&T_Mid (Short-Recip-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2833
2837	15-S&T_Mid (Short-Recip-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2834
2838	15-S&T_Mid (Short-Recip-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2835
2840	15-S&T_Mid (Short-Recip-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2837
2841	15-S&T_Mid (Short-Recip-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2838
2887	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	Hydrogen (MMBtu/)	32394468.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2884
2888	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2885
2889	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2886
2890	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2887

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5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2891	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2888
2892	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2889
2894	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2891
2895	16-S&T_Mid (Short-Recip-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2892
2896	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	Hydrogen (MMBtu/)	41292519.53	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2893
2897	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2894
2898	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2895
2899	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2896
2900	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2897
2901	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2898
2903	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2900
2904	16-S&T_Mid (Short-Recip-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2901
2905	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	Hydrogen (MMBtu/)	52582755.23	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2902
2906	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2903
2907	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2904
2908	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2905
2909	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2906
2910	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2907
2912	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2909
2913	16-S&T_Mid (Short-Recip-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2910
2914	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	Hydrogen (MMBtu/)	66333697.07	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2911
2915	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2912
2916	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2913
2917	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2914
2918	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2915
2919	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2916
2921	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2918
2922	16-S&T_Mid (Short-Recip-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2919
2923	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	Hydrogen (MMBtu/)	82842546.75	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2920
2924	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2921
2925	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2922
2926	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2923
2927	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2924
2928	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2925
2930	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2927
2931	16-S&T_Mid (Short-Recip-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2928
2932	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	Hydrogen (MMBtu/)	102244522.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2929

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2933	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2930
2934	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2931
2935	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2932
2936	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2933
2937	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2934
2939	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2936
2940	16-S&T_Mid (Short-Recip-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2937
2941	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	Hydrogen (MMBtu/)	122832229.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2938
2942	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2939
2943	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2940
2944	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2941
2945	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2942
2946	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2943
2948	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2945
2949	16-S&T_Mid (Short-Recip-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2946
2950	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	Hydrogen (MMBtu/)	144191023	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2947
2951	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2948
2952	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2949
2953	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2950
2954	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2951
2955	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2952
2957	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2954
2958	16-S&T_Mid (Short-Recip-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2955
2959	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	Hydrogen (MMBtu/)	165952404.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2956
2960	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2957
2961	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2958
2962	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2959
2963	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2960
2964	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2961
2966	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2963
2967	16-S&T_Mid (Short-Recip-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2964
2968	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	Hydrogen (MMBtu/)	188331988.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2965
2969	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2966
2970	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2967
2971	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2968
2972	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2969
2973	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2970

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
2975	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2972
2976	16-S&T_Mid (Short-Recip-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2973
2977	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	Hydrogen (MMBtu/)	211611166.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2974
2978	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2975
2979	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2976
2980	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2977
2981	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2978
2982	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2979
2984	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2981
2985	16-S&T_Mid (Short-Recip-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2982
2986	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	Hydrogen (MMBtu/)	237174477.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2983
2987	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2984
2988	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2985
2989	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2986
2990	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2987
2991	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2988
2993	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2990
2994	16-S&T_Mid (Short-Recip-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2991
2995	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	Hydrogen (MMBtu/)	264300900.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2992
2996	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2993
2997	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2994
2998	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2995
2999	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2996
3000	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2997
3002	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2999
3003	16-S&T_Mid (Short-Recip-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3000
3004	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	Hydrogen (MMBtu/)	293070542.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3001
3005	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3002
3006	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3003
3007	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3004
3008	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3005
3009	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3006
3011	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3008
3012	16-S&T_Mid (Short-Recip-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3009
3013	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	Hydrogen (MMBtu/)	323447348.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3010
3014	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3011
3015	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3012

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3016	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3013
3017	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3014
3018	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3015
3020	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3017
3021	16-S&T_Mid (Short-Recip-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3018
3022	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	Hydrogen (MMBtu/)	355381942.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3019
3023	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3020
3024	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3021
3025	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3022
3026	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3023
3027	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3024
3029	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3026
3030	16-S&T_Mid (Short-Recip-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3027
3076	17-S&T_High (Long-Turbine-UG)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3073
3077	17-S&T_High (Long-Turbine-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3074
3078	17-S&T_High (Long-Turbine-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3075
3079	17-S&T_High (Long-Turbine-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3076
3080	17-S&T_High (Long-Turbine-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3077
3081	17-S&T_High (Long-Turbine-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3078
3083	17-S&T_High (Long-Turbine-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3080
3084	17-S&T_High (Long-Turbine-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3081
3085	17-S&T_High (Long-Turbine-UG)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3082
3086	17-S&T_High (Long-Turbine-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3083
3087	17-S&T_High (Long-Turbine-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3084
3088	17-S&T_High (Long-Turbine-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3085
3089	17-S&T_High (Long-Turbine-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3086
3090	17-S&T_High (Long-Turbine-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3087
3092	17-S&T_High (Long-Turbine-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3089
3093	17-S&T_High (Long-Turbine-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3090
3094	17-S&T_High (Long-Turbine-UG)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3091
3095	17-S&T_High (Long-Turbine-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3092
3096	17-S&T_High (Long-Turbine-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3093
3097	17-S&T_High (Long-Turbine-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3094
3098	17-S&T_High (Long-Turbine-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3095
3099	17-S&T_High (Long-Turbine-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3096
3101	17-S&T_High (Long-Turbine-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3098
3102	17-S&T_High (Long-Turbine-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3099

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5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3103	17-S&T_High (Long-Turbine-UG)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3100
3104	17-S&T_High (Long-Turbine-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3101
3105	17-S&T_High (Long-Turbine-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3102
3106	17-S&T_High (Long-Turbine-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3103
3107	17-S&T_High (Long-Turbine-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3104
3108	17-S&T_High (Long-Turbine-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3105
3110	17-S&T_High (Long-Turbine-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3107
3111	17-S&T_High (Long-Turbine-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3108
3112	17-S&T_High (Long-Turbine-UG)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3109
3113	17-S&T_High (Long-Turbine-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3110
3114	17-S&T_High (Long-Turbine-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3111
3115	17-S&T_High (Long-Turbine-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3112
3116	17-S&T_High (Long-Turbine-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3113
3117	17-S&T_High (Long-Turbine-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3114
3119	17-S&T_High (Long-Turbine-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3116
3120	17-S&T_High (Long-Turbine-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3117
3121	17-S&T_High (Long-Turbine-UG)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3118
3122	17-S&T_High (Long-Turbine-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3119
3123	17-S&T_High (Long-Turbine-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3120
3124	17-S&T_High (Long-Turbine-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3121
3125	17-S&T_High (Long-Turbine-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3122
3126	17-S&T_High (Long-Turbine-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3123
3128	17-S&T_High (Long-Turbine-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3125
3129	17-S&T_High (Long-Turbine-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3126
3130	17-S&T_High (Long-Turbine-UG)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3127
3131	17-S&T_High (Long-Turbine-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3128
3132	17-S&T_High (Long-Turbine-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3129
3133	17-S&T_High (Long-Turbine-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3130
3134	17-S&T_High (Long-Turbine-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3131
3135	17-S&T_High (Long-Turbine-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3132
3137	17-S&T_High (Long-Turbine-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3134
3138	17-S&T_High (Long-Turbine-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3135
3139	17-S&T_High (Long-Turbine-UG)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3136
3140	17-S&T_High (Long-Turbine-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3137
3141	17-S&T_High (Long-Turbine-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3138
3142	17-S&T_High (Long-Turbine-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3139
3143	17-S&T_High (Long-Turbine-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3140

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5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3144	17-S&T_High (Long-Turbine-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3141
3146	17-S&T_High (Long-Turbine-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3143
3147	17-S&T_High (Long-Turbine-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3144
3148	17-S&T_High (Long-Turbine-UG)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3145
3149	17-S&T_High (Long-Turbine-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3146
3150	17-S&T_High (Long-Turbine-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3147
3151	17-S&T_High (Long-Turbine-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3148
3152	17-S&T_High (Long-Turbine-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3149
3153	17-S&T_High (Long-Turbine-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3150
3155	17-S&T_High (Long-Turbine-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3152
3156	17-S&T_High (Long-Turbine-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3153
3157	17-S&T_High (Long-Turbine-UG)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3154
3158	17-S&T_High (Long-Turbine-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3155
3159	17-S&T_High (Long-Turbine-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3156
3160	17-S&T_High (Long-Turbine-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3157
3161	17-S&T_High (Long-Turbine-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3158
3162	17-S&T_High (Long-Turbine-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3159
3164	17-S&T_High (Long-Turbine-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3161
3165	17-S&T_High (Long-Turbine-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3162
3166	17-S&T_High (Long-Turbine-UG)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3163
3167	17-S&T_High (Long-Turbine-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3164
3168	17-S&T_High (Long-Turbine-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3165
3169	17-S&T_High (Long-Turbine-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3166
3170	17-S&T_High (Long-Turbine-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3167
3171	17-S&T_High (Long-Turbine-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3168
3173	17-S&T_High (Long-Turbine-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3170
3174	17-S&T_High (Long-Turbine-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3171
3175	17-S&T_High (Long-Turbine-UG)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3172
3176	17-S&T_High (Long-Turbine-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3173
3177	17-S&T_High (Long-Turbine-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3174
3178	17-S&T_High (Long-Turbine-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3175
3179	17-S&T_High (Long-Turbine-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3176
3180	17-S&T_High (Long-Turbine-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3177
3182	17-S&T_High (Long-Turbine-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3179
3183	17-S&T_High (Long-Turbine-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3180
3184	17-S&T_High (Long-Turbine-UG)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3181
3185	17-S&T_High (Long-Turbine-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3182

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3186	17-S&T_High (Long-Turbine-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3183
3187	17-S&T_High (Long-Turbine-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3184
3188	17-S&T_High (Long-Turbine-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3185
3189	17-S&T_High (Long-Turbine-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3186
3191	17-S&T_High (Long-Turbine-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3188
3192	17-S&T_High (Long-Turbine-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3189
3193	17-S&T_High (Long-Turbine-UG)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3190
3194	17-S&T_High (Long-Turbine-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3191
3195	17-S&T_High (Long-Turbine-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3192
3196	17-S&T_High (Long-Turbine-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3193
3197	17-S&T_High (Long-Turbine-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3194
3198	17-S&T_High (Long-Turbine-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3195
3200	17-S&T_High (Long-Turbine-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3197
3201	17-S&T_High (Long-Turbine-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3198
3202	17-S&T_High (Long-Turbine-UG)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3199
3203	17-S&T_High (Long-Turbine-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3200
3204	17-S&T_High (Long-Turbine-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3201
3205	17-S&T_High (Long-Turbine-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3202
3206	17-S&T_High (Long-Turbine-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3203
3207	17-S&T_High (Long-Turbine-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3204
3209	17-S&T_High (Long-Turbine-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3206
3210	17-S&T_High (Long-Turbine-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3207
3211	17-S&T_High (Long-Turbine-UG)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3208
3212	17-S&T_High (Long-Turbine-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3209
3213	17-S&T_High (Long-Turbine-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3210
3214	17-S&T_High (Long-Turbine-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3211
3215	17-S&T_High (Long-Turbine-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3212
3216	17-S&T_High (Long-Turbine-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3213
3218	17-S&T_High (Long-Turbine-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3215
3219	17-S&T_High (Long-Turbine-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3216
3265	18-S&T_High (Long-Turbine-Sphere)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3262
3266	18-S&T_High (Long-Turbine-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3263
3267	18-S&T_High (Long-Turbine-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3264
3268	18-S&T_High (Long-Turbine-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3265
3269	18-S&T_High (Long-Turbine-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3266
3270	18-S&T_High (Long-Turbine-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3267
3272	18-S&T_High (Long-Turbine-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3269

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
3273	18-S&T_High (Long-Turbine-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3270
3274	18-S&T_High (Long-Turbine-Sphere)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3271
3275	18-S&T_High (Long-Turbine-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3272
3276	18-S&T_High (Long-Turbine-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3273
3277	18-S&T_High (Long-Turbine-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3274
3278	18-S&T_High (Long-Turbine-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3275
3279	18-S&T_High (Long-Turbine-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3276
3281	18-S&T_High (Long-Turbine-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3278
3282	18-S&T_High (Long-Turbine-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3279
3283	18-S&T_High (Long-Turbine-Sphere)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3280
3284	18-S&T_High (Long-Turbine-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3281
3285	18-S&T_High (Long-Turbine-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3282
3286	18-S&T_High (Long-Turbine-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3283
3287	18-S&T_High (Long-Turbine-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3284
3288	18-S&T_High (Long-Turbine-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3285
3290	18-S&T_High (Long-Turbine-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3287
3291	18-S&T_High (Long-Turbine-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3288
3292	18-S&T_High (Long-Turbine-Sphere)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3289
3293	18-S&T_High (Long-Turbine-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3290
3294	18-S&T_High (Long-Turbine-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3291
3295	18-S&T_High (Long-Turbine-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3292
3296	18-S&T_High (Long-Turbine-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3293
3297	18-S&T_High (Long-Turbine-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3294
3299	18-S&T_High (Long-Turbine-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3296
3300	18-S&T_High (Long-Turbine-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3297
3301	18-S&T_High (Long-Turbine-Sphere)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3298
3302	18-S&T_High (Long-Turbine-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3299
3303	18-S&T_High (Long-Turbine-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3300
3304	18-S&T_High (Long-Turbine-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3301
3305	18-S&T_High (Long-Turbine-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3302
3306	18-S&T_High (Long-Turbine-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3303
3308	18-S&T_High (Long-Turbine-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3305
3309	18-S&T_High (Long-Turbine-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3306
3310	18-S&T_High (Long-Turbine-Sphere)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3307
3311	18-S&T_High (Long-Turbine-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3308
3312	18-S&T_High (Long-Turbine-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3309
3313	18-S&T_High (Long-Turbine-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3310

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3314	18-S&T_High (Long-Turbine-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3311
3315	18-S&T_High (Long-Turbine-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3312
3317	18-S&T_High (Long-Turbine-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3314
3318	18-S&T_High (Long-Turbine-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3315
3319	18-S&T_High (Long-Turbine-Sphere)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3316
3320	18-S&T_High (Long-Turbine-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3317
3321	18-S&T_High (Long-Turbine-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3318
3322	18-S&T_High (Long-Turbine-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3319
3323	18-S&T_High (Long-Turbine-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3320
3324	18-S&T_High (Long-Turbine-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3321
3326	18-S&T_High (Long-Turbine-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3323
3327	18-S&T_High (Long-Turbine-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3324
3328	18-S&T_High (Long-Turbine-Sphere)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3325
3329	18-S&T_High (Long-Turbine-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3326
3330	18-S&T_High (Long-Turbine-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3327
3331	18-S&T_High (Long-Turbine-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3328
3332	18-S&T_High (Long-Turbine-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3329
3333	18-S&T_High (Long-Turbine-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3330
3335	18-S&T_High (Long-Turbine-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3332
3336	18-S&T_High (Long-Turbine-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3333
3337	18-S&T_High (Long-Turbine-Sphere)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3334
3338	18-S&T_High (Long-Turbine-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3335
3339	18-S&T_High (Long-Turbine-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3336
3340	18-S&T_High (Long-Turbine-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3337
3341	18-S&T_High (Long-Turbine-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3338
3342	18-S&T_High (Long-Turbine-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3339
3344	18-S&T_High (Long-Turbine-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3341
3345	18-S&T_High (Long-Turbine-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3342
3346	18-S&T_High (Long-Turbine-Sphere)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3343
3347	18-S&T_High (Long-Turbine-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3344
3348	18-S&T_High (Long-Turbine-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3345
3349	18-S&T_High (Long-Turbine-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3346
3350	18-S&T_High (Long-Turbine-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3347
3351	18-S&T_High (Long-Turbine-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3348
3353	18-S&T_High (Long-Turbine-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3350
3354	18-S&T_High (Long-Turbine-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3351
3355	18-S&T_High (Long-Turbine-Sphere)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3352

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3356	18-S&T_High (Long-Turbine-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3353
3357	18-S&T_High (Long-Turbine-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3354
3358	18-S&T_High (Long-Turbine-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3355
3359	18-S&T_High (Long-Turbine-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3356
3360	18-S&T_High (Long-Turbine-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3357
3362	18-S&T_High (Long-Turbine-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3359
3363	18-S&T_High (Long-Turbine-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3360
3364	18-S&T_High (Long-Turbine-Sphere)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3361
3365	18-S&T_High (Long-Turbine-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3362
3366	18-S&T_High (Long-Turbine-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3363
3367	18-S&T_High (Long-Turbine-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3364
3368	18-S&T_High (Long-Turbine-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3365
3369	18-S&T_High (Long-Turbine-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3366
3371	18-S&T_High (Long-Turbine-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3368
3372	18-S&T_High (Long-Turbine-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3369
3373	18-S&T_High (Long-Turbine-Sphere)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3370
3374	18-S&T_High (Long-Turbine-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3371
3375	18-S&T_High (Long-Turbine-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3372
3376	18-S&T_High (Long-Turbine-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3373
3377	18-S&T_High (Long-Turbine-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3374
3378	18-S&T_High (Long-Turbine-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3375
3380	18-S&T_High (Long-Turbine-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3377
3381	18-S&T_High (Long-Turbine-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3378
3382	18-S&T_High (Long-Turbine-Sphere)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3379
3383	18-S&T_High (Long-Turbine-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3380
3384	18-S&T_High (Long-Turbine-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3381
3385	18-S&T_High (Long-Turbine-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3382
3386	18-S&T_High (Long-Turbine-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3383
3387	18-S&T_High (Long-Turbine-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3384
3389	18-S&T_High (Long-Turbine-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3386
3390	18-S&T_High (Long-Turbine-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3387
3391	18-S&T_High (Long-Turbine-Sphere)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3388
3392	18-S&T_High (Long-Turbine-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3389
3393	18-S&T_High (Long-Turbine-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3390
3394	18-S&T_High (Long-Turbine-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3391
3395	18-S&T_High (Long-Turbine-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3392
3396	18-S&T_High (Long-Turbine-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3393

	A	C	D	E	F
1					
2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
3398	18-S&T_High (Long-Turbine-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3395
3399	18-S&T_High (Long-Turbine-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3396
3400	18-S&T_High (Long-Turbine-Sphere)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3397
3401	18-S&T_High (Long-Turbine-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3398
3402	18-S&T_High (Long-Turbine-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3399
3403	18-S&T_High (Long-Turbine-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3400
3404	18-S&T_High (Long-Turbine-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3401
3405	18-S&T_High (Long-Turbine-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3402
3407	18-S&T_High (Long-Turbine-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3404
3408	18-S&T_High (Long-Turbine-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3405
3454	19-S&T_High (Long-Recip-UG)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3451
3455	19-S&T_High (Long-Recip-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3452
3456	19-S&T_High (Long-Recip-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3453
3457	19-S&T_High (Long-Recip-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3454
3458	19-S&T_High (Long-Recip-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3455
3459	19-S&T_High (Long-Recip-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3456
3461	19-S&T_High (Long-Recip-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3458
3462	19-S&T_High (Long-Recip-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3459
3463	19-S&T_High (Long-Recip-UG)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3460
3464	19-S&T_High (Long-Recip-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3461
3465	19-S&T_High (Long-Recip-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3462
3466	19-S&T_High (Long-Recip-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3463
3467	19-S&T_High (Long-Recip-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3464
3468	19-S&T_High (Long-Recip-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3465
3470	19-S&T_High (Long-Recip-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3467
3471	19-S&T_High (Long-Recip-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3468
3472	19-S&T_High (Long-Recip-UG)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3469
3473	19-S&T_High (Long-Recip-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3470
3474	19-S&T_High (Long-Recip-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3471
3475	19-S&T_High (Long-Recip-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3472
3476	19-S&T_High (Long-Recip-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3473
3477	19-S&T_High (Long-Recip-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3474
3479	19-S&T_High (Long-Recip-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3476
3480	19-S&T_High (Long-Recip-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3477
3481	19-S&T_High (Long-Recip-UG)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3478
3482	19-S&T_High (Long-Recip-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3479
3483	19-S&T_High (Long-Recip-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3480

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3484	19-S&T_High (Long-Recip-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3481
3485	19-S&T_High (Long-Recip-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3482
3486	19-S&T_High (Long-Recip-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3483
3488	19-S&T_High (Long-Recip-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3485
3489	19-S&T_High (Long-Recip-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3486
3490	19-S&T_High (Long-Recip-UG)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3487
3491	19-S&T_High (Long-Recip-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3488
3492	19-S&T_High (Long-Recip-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3489
3493	19-S&T_High (Long-Recip-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3490
3494	19-S&T_High (Long-Recip-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3491
3495	19-S&T_High (Long-Recip-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3492
3497	19-S&T_High (Long-Recip-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3494
3498	19-S&T_High (Long-Recip-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3495
3499	19-S&T_High (Long-Recip-UG)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3496
3500	19-S&T_High (Long-Recip-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3497
3501	19-S&T_High (Long-Recip-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3498
3502	19-S&T_High (Long-Recip-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3499
3503	19-S&T_High (Long-Recip-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3500
3504	19-S&T_High (Long-Recip-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3501
3506	19-S&T_High (Long-Recip-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3503
3507	19-S&T_High (Long-Recip-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3504
3508	19-S&T_High (Long-Recip-UG)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3505
3509	19-S&T_High (Long-Recip-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3506
3510	19-S&T_High (Long-Recip-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3507
3511	19-S&T_High (Long-Recip-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3508
3512	19-S&T_High (Long-Recip-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3509
3513	19-S&T_High (Long-Recip-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3510
3515	19-S&T_High (Long-Recip-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3512
3516	19-S&T_High (Long-Recip-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3513
3517	19-S&T_High (Long-Recip-UG)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3514
3518	19-S&T_High (Long-Recip-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3515
3519	19-S&T_High (Long-Recip-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3516
3520	19-S&T_High (Long-Recip-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3517
3521	19-S&T_High (Long-Recip-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3518
3522	19-S&T_High (Long-Recip-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3519
3524	19-S&T_High (Long-Recip-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3521
3525	19-S&T_High (Long-Recip-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3522

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3526	19-S&T_High (Long-Recip-UG)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3523
3527	19-S&T_High (Long-Recip-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3524
3528	19-S&T_High (Long-Recip-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3525
3529	19-S&T_High (Long-Recip-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3526
3530	19-S&T_High (Long-Recip-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3527
3531	19-S&T_High (Long-Recip-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3528
3533	19-S&T_High (Long-Recip-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3530
3534	19-S&T_High (Long-Recip-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3531
3535	19-S&T_High (Long-Recip-UG)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3532
3536	19-S&T_High (Long-Recip-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3533
3537	19-S&T_High (Long-Recip-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3534
3538	19-S&T_High (Long-Recip-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3535
3539	19-S&T_High (Long-Recip-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3536
3540	19-S&T_High (Long-Recip-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3537
3542	19-S&T_High (Long-Recip-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3539
3543	19-S&T_High (Long-Recip-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3540
3544	19-S&T_High (Long-Recip-UG)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3541
3545	19-S&T_High (Long-Recip-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3542
3546	19-S&T_High (Long-Recip-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3543
3547	19-S&T_High (Long-Recip-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3544
3548	19-S&T_High (Long-Recip-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3545
3549	19-S&T_High (Long-Recip-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3546
3551	19-S&T_High (Long-Recip-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3548
3552	19-S&T_High (Long-Recip-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3549
3553	19-S&T_High (Long-Recip-UG)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3550
3554	19-S&T_High (Long-Recip-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3551
3555	19-S&T_High (Long-Recip-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3552
3556	19-S&T_High (Long-Recip-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3553
3557	19-S&T_High (Long-Recip-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3554
3558	19-S&T_High (Long-Recip-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3555
3560	19-S&T_High (Long-Recip-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3557
3561	19-S&T_High (Long-Recip-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3558
3562	19-S&T_High (Long-Recip-UG)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3559
3563	19-S&T_High (Long-Recip-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3560
3564	19-S&T_High (Long-Recip-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3561
3565	19-S&T_High (Long-Recip-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3562
3566	19-S&T_High (Long-Recip-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3563

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3567	19-S&T_High (Long-Recip-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3564
3569	19-S&T_High (Long-Recip-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3566
3570	19-S&T_High (Long-Recip-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3567
3571	19-S&T_High (Long-Recip-UG)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3568
3572	19-S&T_High (Long-Recip-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3569
3573	19-S&T_High (Long-Recip-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3570
3574	19-S&T_High (Long-Recip-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3571
3575	19-S&T_High (Long-Recip-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3572
3576	19-S&T_High (Long-Recip-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3573
3578	19-S&T_High (Long-Recip-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3575
3579	19-S&T_High (Long-Recip-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3576
3580	19-S&T_High (Long-Recip-UG)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3577
3581	19-S&T_High (Long-Recip-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3578
3582	19-S&T_High (Long-Recip-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3579
3583	19-S&T_High (Long-Recip-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3580
3584	19-S&T_High (Long-Recip-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3581
3585	19-S&T_High (Long-Recip-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3582
3587	19-S&T_High (Long-Recip-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3584
3588	19-S&T_High (Long-Recip-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3585
3589	19-S&T_High (Long-Recip-UG)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3586
3590	19-S&T_High (Long-Recip-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3587
3591	19-S&T_High (Long-Recip-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3588
3592	19-S&T_High (Long-Recip-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3589
3593	19-S&T_High (Long-Recip-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3590
3594	19-S&T_High (Long-Recip-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3591
3596	19-S&T_High (Long-Recip-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3593
3597	19-S&T_High (Long-Recip-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3594
3643	20-S&T_High (Long-Recip-Sphere)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3640
3644	20-S&T_High (Long-Recip-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3641
3645	20-S&T_High (Long-Recip-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3642
3646	20-S&T_High (Long-Recip-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3643
3647	20-S&T_High (Long-Recip-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3644
3648	20-S&T_High (Long-Recip-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3645
3650	20-S&T_High (Long-Recip-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3647
3651	20-S&T_High (Long-Recip-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3648
3652	20-S&T_High (Long-Recip-Sphere)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3649
3653	20-S&T_High (Long-Recip-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3650

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3654	20-S&T_High (Long-Recip-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3651
3655	20-S&T_High (Long-Recip-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3652
3656	20-S&T_High (Long-Recip-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3653
3657	20-S&T_High (Long-Recip-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3654
3659	20-S&T_High (Long-Recip-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3656
3660	20-S&T_High (Long-Recip-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3657
3661	20-S&T_High (Long-Recip-Sphere)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3658
3662	20-S&T_High (Long-Recip-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3659
3663	20-S&T_High (Long-Recip-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3660
3664	20-S&T_High (Long-Recip-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3661
3665	20-S&T_High (Long-Recip-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3662
3666	20-S&T_High (Long-Recip-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3663
3668	20-S&T_High (Long-Recip-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3665
3669	20-S&T_High (Long-Recip-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3666
3670	20-S&T_High (Long-Recip-Sphere)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3667
3671	20-S&T_High (Long-Recip-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3668
3672	20-S&T_High (Long-Recip-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3669
3673	20-S&T_High (Long-Recip-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3670
3674	20-S&T_High (Long-Recip-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3671
3675	20-S&T_High (Long-Recip-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3672
3677	20-S&T_High (Long-Recip-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3674
3678	20-S&T_High (Long-Recip-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3675
3679	20-S&T_High (Long-Recip-Sphere)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3676
3680	20-S&T_High (Long-Recip-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3677
3681	20-S&T_High (Long-Recip-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3678
3682	20-S&T_High (Long-Recip-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3679
3683	20-S&T_High (Long-Recip-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3680
3684	20-S&T_High (Long-Recip-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3681
3686	20-S&T_High (Long-Recip-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3683
3687	20-S&T_High (Long-Recip-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3684
3688	20-S&T_High (Long-Recip-Sphere)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3685
3689	20-S&T_High (Long-Recip-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3686
3690	20-S&T_High (Long-Recip-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3687
3691	20-S&T_High (Long-Recip-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3688
3692	20-S&T_High (Long-Recip-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3689
3693	20-S&T_High (Long-Recip-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3690
3695	20-S&T_High (Long-Recip-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3692

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
3696	20-S&T_High (Long-Recip-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3693
3697	20-S&T_High (Long-Recip-Sphere)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3694
3698	20-S&T_High (Long-Recip-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3695
3699	20-S&T_High (Long-Recip-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3696
3700	20-S&T_High (Long-Recip-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3697
3701	20-S&T_High (Long-Recip-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3698
3702	20-S&T_High (Long-Recip-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3699
3704	20-S&T_High (Long-Recip-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3701
3705	20-S&T_High (Long-Recip-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3702
3706	20-S&T_High (Long-Recip-Sphere)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3703
3707	20-S&T_High (Long-Recip-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3704
3708	20-S&T_High (Long-Recip-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3705
3709	20-S&T_High (Long-Recip-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3706
3710	20-S&T_High (Long-Recip-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3707
3711	20-S&T_High (Long-Recip-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3708
3713	20-S&T_High (Long-Recip-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3710
3714	20-S&T_High (Long-Recip-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3711
3715	20-S&T_High (Long-Recip-Sphere)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3712
3716	20-S&T_High (Long-Recip-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3713
3717	20-S&T_High (Long-Recip-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3714
3718	20-S&T_High (Long-Recip-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3715
3719	20-S&T_High (Long-Recip-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3716
3720	20-S&T_High (Long-Recip-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3717
3722	20-S&T_High (Long-Recip-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3719
3723	20-S&T_High (Long-Recip-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3720
3724	20-S&T_High (Long-Recip-Sphere)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3721
3725	20-S&T_High (Long-Recip-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3722
3726	20-S&T_High (Long-Recip-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3723
3727	20-S&T_High (Long-Recip-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3724
3728	20-S&T_High (Long-Recip-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3725
3729	20-S&T_High (Long-Recip-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3726
3731	20-S&T_High (Long-Recip-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3728
3732	20-S&T_High (Long-Recip-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3729
3733	20-S&T_High (Long-Recip-Sphere)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3730
3734	20-S&T_High (Long-Recip-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3731
3735	20-S&T_High (Long-Recip-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3732
3736	20-S&T_High (Long-Recip-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3733

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3737	20-S&T_High (Long-Recip-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3734
3738	20-S&T_High (Long-Recip-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3735
3740	20-S&T_High (Long-Recip-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3737
3741	20-S&T_High (Long-Recip-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3738
3742	20-S&T_High (Long-Recip-Sphere)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3739
3743	20-S&T_High (Long-Recip-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3740
3744	20-S&T_High (Long-Recip-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3741
3745	20-S&T_High (Long-Recip-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3742
3746	20-S&T_High (Long-Recip-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3743
3747	20-S&T_High (Long-Recip-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3744
3749	20-S&T_High (Long-Recip-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3746
3750	20-S&T_High (Long-Recip-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3747
3751	20-S&T_High (Long-Recip-Sphere)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3748
3752	20-S&T_High (Long-Recip-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3749
3753	20-S&T_High (Long-Recip-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3750
3754	20-S&T_High (Long-Recip-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3751
3755	20-S&T_High (Long-Recip-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3752
3756	20-S&T_High (Long-Recip-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3753
3758	20-S&T_High (Long-Recip-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3755
3759	20-S&T_High (Long-Recip-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3756
3760	20-S&T_High (Long-Recip-Sphere)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3757
3761	20-S&T_High (Long-Recip-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3758
3762	20-S&T_High (Long-Recip-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3759
3763	20-S&T_High (Long-Recip-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3760
3764	20-S&T_High (Long-Recip-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3761
3765	20-S&T_High (Long-Recip-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3762
3767	20-S&T_High (Long-Recip-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3764
3768	20-S&T_High (Long-Recip-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3765
3769	20-S&T_High (Long-Recip-Sphere)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3766
3770	20-S&T_High (Long-Recip-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3767
3771	20-S&T_High (Long-Recip-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3768
3772	20-S&T_High (Long-Recip-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3769
3773	20-S&T_High (Long-Recip-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3770
3774	20-S&T_High (Long-Recip-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3771
3776	20-S&T_High (Long-Recip-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3773
3777	20-S&T_High (Long-Recip-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3774
3778	20-S&T_High (Long-Recip-Sphere)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3775

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3779	20-S&T_High (Long-Recip-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3776
3780	20-S&T_High (Long-Recip-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3777
3781	20-S&T_High (Long-Recip-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3778
3782	20-S&T_High (Long-Recip-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3779
3783	20-S&T_High (Long-Recip-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3780
3785	20-S&T_High (Long-Recip-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3782
3786	20-S&T_High (Long-Recip-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3783
3832	21-S&T_High (Short-Turbine-UG)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3829
3833	21-S&T_High (Short-Turbine-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3830
3834	21-S&T_High (Short-Turbine-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3831
3835	21-S&T_High (Short-Turbine-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3832
3836	21-S&T_High (Short-Turbine-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3833
3837	21-S&T_High (Short-Turbine-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3834
3839	21-S&T_High (Short-Turbine-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3836
3840	21-S&T_High (Short-Turbine-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3837
3841	21-S&T_High (Short-Turbine-UG)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3838
3842	21-S&T_High (Short-Turbine-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3839
3843	21-S&T_High (Short-Turbine-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3840
3844	21-S&T_High (Short-Turbine-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3841
3845	21-S&T_High (Short-Turbine-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3842
3846	21-S&T_High (Short-Turbine-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3843
3848	21-S&T_High (Short-Turbine-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3845
3849	21-S&T_High (Short-Turbine-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3846
3850	21-S&T_High (Short-Turbine-UG)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3847
3851	21-S&T_High (Short-Turbine-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3848
3852	21-S&T_High (Short-Turbine-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3849
3853	21-S&T_High (Short-Turbine-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3850
3854	21-S&T_High (Short-Turbine-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3851
3855	21-S&T_High (Short-Turbine-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3852
3857	21-S&T_High (Short-Turbine-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3854
3858	21-S&T_High (Short-Turbine-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3855
3859	21-S&T_High (Short-Turbine-UG)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3856
3860	21-S&T_High (Short-Turbine-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3857
3861	21-S&T_High (Short-Turbine-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3858
3862	21-S&T_High (Short-Turbine-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3859
3863	21-S&T_High (Short-Turbine-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3860
3864	21-S&T_High (Short-Turbine-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3861

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3866	21-S&T_High (Short-Turbine-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3863
3867	21-S&T_High (Short-Turbine-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3864
3868	21-S&T_High (Short-Turbine-UG)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3865
3869	21-S&T_High (Short-Turbine-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3866
3870	21-S&T_High (Short-Turbine-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3867
3871	21-S&T_High (Short-Turbine-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3868
3872	21-S&T_High (Short-Turbine-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3869
3873	21-S&T_High (Short-Turbine-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3870
3875	21-S&T_High (Short-Turbine-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3872
3876	21-S&T_High (Short-Turbine-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3873
3877	21-S&T_High (Short-Turbine-UG)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3874
3878	21-S&T_High (Short-Turbine-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3875
3879	21-S&T_High (Short-Turbine-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3876
3880	21-S&T_High (Short-Turbine-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3877
3881	21-S&T_High (Short-Turbine-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3878
3882	21-S&T_High (Short-Turbine-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3879
3884	21-S&T_High (Short-Turbine-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3881
3885	21-S&T_High (Short-Turbine-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3882
3886	21-S&T_High (Short-Turbine-UG)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3883
3887	21-S&T_High (Short-Turbine-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3884
3888	21-S&T_High (Short-Turbine-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3885
3889	21-S&T_High (Short-Turbine-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3886
3890	21-S&T_High (Short-Turbine-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3887
3891	21-S&T_High (Short-Turbine-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3888
3893	21-S&T_High (Short-Turbine-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3890
3894	21-S&T_High (Short-Turbine-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3891
3895	21-S&T_High (Short-Turbine-UG)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3892
3896	21-S&T_High (Short-Turbine-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3893
3897	21-S&T_High (Short-Turbine-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3894
3898	21-S&T_High (Short-Turbine-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3895
3899	21-S&T_High (Short-Turbine-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3896
3900	21-S&T_High (Short-Turbine-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3897
3902	21-S&T_High (Short-Turbine-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3899
3903	21-S&T_High (Short-Turbine-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3900
3904	21-S&T_High (Short-Turbine-UG)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3901
3905	21-S&T_High (Short-Turbine-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3902
3906	21-S&T_High (Short-Turbine-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3903

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	Fuel Type	Parameter	Value	Reference
3907	21-S&T_High (Short-Turbine-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3904
3908	21-S&T_High (Short-Turbine-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3905
3909	21-S&T_High (Short-Turbine-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3906
3911	21-S&T_High (Short-Turbine-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3908
3912	21-S&T_High (Short-Turbine-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3909
3913	21-S&T_High (Short-Turbine-UG)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3910
3914	21-S&T_High (Short-Turbine-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3911
3915	21-S&T_High (Short-Turbine-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3912
3916	21-S&T_High (Short-Turbine-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3913
3917	21-S&T_High (Short-Turbine-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3914
3918	21-S&T_High (Short-Turbine-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3915
3920	21-S&T_High (Short-Turbine-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3917
3921	21-S&T_High (Short-Turbine-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3918
3922	21-S&T_High (Short-Turbine-UG)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3919
3923	21-S&T_High (Short-Turbine-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3920
3924	21-S&T_High (Short-Turbine-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3921
3925	21-S&T_High (Short-Turbine-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3922
3926	21-S&T_High (Short-Turbine-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3923
3927	21-S&T_High (Short-Turbine-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3924
3929	21-S&T_High (Short-Turbine-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3926
3930	21-S&T_High (Short-Turbine-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3927
3931	21-S&T_High (Short-Turbine-UG)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3928
3932	21-S&T_High (Short-Turbine-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3929
3933	21-S&T_High (Short-Turbine-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3930
3934	21-S&T_High (Short-Turbine-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3931
3935	21-S&T_High (Short-Turbine-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3932
3936	21-S&T_High (Short-Turbine-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3933
3938	21-S&T_High (Short-Turbine-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3935
3939	21-S&T_High (Short-Turbine-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3936
3940	21-S&T_High (Short-Turbine-UG)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3937
3941	21-S&T_High (Short-Turbine-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3938
3942	21-S&T_High (Short-Turbine-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3939
3943	21-S&T_High (Short-Turbine-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3940
3944	21-S&T_High (Short-Turbine-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3941
3945	21-S&T_High (Short-Turbine-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3942
3947	21-S&T_High (Short-Turbine-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3944
3948	21-S&T_High (Short-Turbine-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3945

	A	C	D	E	F
1					
2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
3949	21-S&T_High (Short-Turbine-UG)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3946
3950	21-S&T_High (Short-Turbine-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3947
3951	21-S&T_High (Short-Turbine-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3948
3952	21-S&T_High (Short-Turbine-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3949
3953	21-S&T_High (Short-Turbine-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3950
3954	21-S&T_High (Short-Turbine-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3951
3956	21-S&T_High (Short-Turbine-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3953
3957	21-S&T_High (Short-Turbine-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3954
3958	21-S&T_High (Short-Turbine-UG)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3955
3959	21-S&T_High (Short-Turbine-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3956
3960	21-S&T_High (Short-Turbine-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3957
3961	21-S&T_High (Short-Turbine-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3958
3962	21-S&T_High (Short-Turbine-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3959
3963	21-S&T_High (Short-Turbine-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3960
3965	21-S&T_High (Short-Turbine-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3962
3966	21-S&T_High (Short-Turbine-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3963
3967	21-S&T_High (Short-Turbine-UG)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3964
3968	21-S&T_High (Short-Turbine-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3965
3969	21-S&T_High (Short-Turbine-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3966
3970	21-S&T_High (Short-Turbine-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3967
3971	21-S&T_High (Short-Turbine-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3968
3972	21-S&T_High (Short-Turbine-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3969
3974	21-S&T_High (Short-Turbine-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3971
3975	21-S&T_High (Short-Turbine-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY3972
4021	22-S&T_High (Short-Turbine-Sphere)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4018
4022	22-S&T_High (Short-Turbine-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4019
4023	22-S&T_High (Short-Turbine-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4020
4024	22-S&T_High (Short-Turbine-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4021
4025	22-S&T_High (Short-Turbine-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4022
4026	22-S&T_High (Short-Turbine-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4023
4028	22-S&T_High (Short-Turbine-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4025
4029	22-S&T_High (Short-Turbine-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4026
4030	22-S&T_High (Short-Turbine-Sphere)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4027
4031	22-S&T_High (Short-Turbine-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4028
4032	22-S&T_High (Short-Turbine-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4029
4033	22-S&T_High (Short-Turbine-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4030
4034	22-S&T_High (Short-Turbine-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4031

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4035	22-S&T_High (Short-Turbine-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4032
4037	22-S&T_High (Short-Turbine-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4034
4038	22-S&T_High (Short-Turbine-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4035
4039	22-S&T_High (Short-Turbine-Sphere)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4036
4040	22-S&T_High (Short-Turbine-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4037
4041	22-S&T_High (Short-Turbine-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4038
4042	22-S&T_High (Short-Turbine-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4039
4043	22-S&T_High (Short-Turbine-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4040
4044	22-S&T_High (Short-Turbine-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4041
4046	22-S&T_High (Short-Turbine-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4043
4047	22-S&T_High (Short-Turbine-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4044
4048	22-S&T_High (Short-Turbine-Sphere)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4045
4049	22-S&T_High (Short-Turbine-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4046
4050	22-S&T_High (Short-Turbine-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4047
4051	22-S&T_High (Short-Turbine-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4048
4052	22-S&T_High (Short-Turbine-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4049
4053	22-S&T_High (Short-Turbine-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4050
4055	22-S&T_High (Short-Turbine-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4052
4056	22-S&T_High (Short-Turbine-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4053
4057	22-S&T_High (Short-Turbine-Sphere)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4054
4058	22-S&T_High (Short-Turbine-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4055
4059	22-S&T_High (Short-Turbine-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4056
4060	22-S&T_High (Short-Turbine-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4057
4061	22-S&T_High (Short-Turbine-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4058
4062	22-S&T_High (Short-Turbine-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4059
4064	22-S&T_High (Short-Turbine-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4061
4065	22-S&T_High (Short-Turbine-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4062
4066	22-S&T_High (Short-Turbine-Sphere)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4063
4067	22-S&T_High (Short-Turbine-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4064
4068	22-S&T_High (Short-Turbine-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4065
4069	22-S&T_High (Short-Turbine-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4066
4070	22-S&T_High (Short-Turbine-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4067
4071	22-S&T_High (Short-Turbine-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4068
4073	22-S&T_High (Short-Turbine-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4070
4074	22-S&T_High (Short-Turbine-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4071
4075	22-S&T_High (Short-Turbine-Sphere)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4072
4076	22-S&T_High (Short-Turbine-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4073

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4077	22-S&T_High (Short-Turbine-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4074
4078	22-S&T_High (Short-Turbine-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4075
4079	22-S&T_High (Short-Turbine-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4076
4080	22-S&T_High (Short-Turbine-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4077
4082	22-S&T_High (Short-Turbine-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4079
4083	22-S&T_High (Short-Turbine-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4080
4084	22-S&T_High (Short-Turbine-Sphere)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4081
4085	22-S&T_High (Short-Turbine-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4082
4086	22-S&T_High (Short-Turbine-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4083
4087	22-S&T_High (Short-Turbine-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4084
4088	22-S&T_High (Short-Turbine-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4085
4089	22-S&T_High (Short-Turbine-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4086
4091	22-S&T_High (Short-Turbine-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4088
4092	22-S&T_High (Short-Turbine-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4089
4093	22-S&T_High (Short-Turbine-Sphere)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4090
4094	22-S&T_High (Short-Turbine-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4091
4095	22-S&T_High (Short-Turbine-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4092
4096	22-S&T_High (Short-Turbine-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4093
4097	22-S&T_High (Short-Turbine-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4094
4098	22-S&T_High (Short-Turbine-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4095
4100	22-S&T_High (Short-Turbine-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4097
4101	22-S&T_High (Short-Turbine-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4098
4102	22-S&T_High (Short-Turbine-Sphere)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4099
4103	22-S&T_High (Short-Turbine-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4100
4104	22-S&T_High (Short-Turbine-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4101
4105	22-S&T_High (Short-Turbine-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4102
4106	22-S&T_High (Short-Turbine-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4103
4107	22-S&T_High (Short-Turbine-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4104
4109	22-S&T_High (Short-Turbine-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4106
4110	22-S&T_High (Short-Turbine-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4107
4111	22-S&T_High (Short-Turbine-Sphere)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4108
4112	22-S&T_High (Short-Turbine-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4109
4113	22-S&T_High (Short-Turbine-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4110
4114	22-S&T_High (Short-Turbine-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4111
4115	22-S&T_High (Short-Turbine-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4112
4116	22-S&T_High (Short-Turbine-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4113
4118	22-S&T_High (Short-Turbine-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4115

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4119	22-S&T_High (Short-Turbine-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4116
4120	22-S&T_High (Short-Turbine-Sphere)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4117
4121	22-S&T_High (Short-Turbine-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4118
4122	22-S&T_High (Short-Turbine-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4119
4123	22-S&T_High (Short-Turbine-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4120
4124	22-S&T_High (Short-Turbine-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4121
4125	22-S&T_High (Short-Turbine-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4122
4127	22-S&T_High (Short-Turbine-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4124
4128	22-S&T_High (Short-Turbine-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4125
4129	22-S&T_High (Short-Turbine-Sphere)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4126
4130	22-S&T_High (Short-Turbine-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4127
4131	22-S&T_High (Short-Turbine-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4128
4132	22-S&T_High (Short-Turbine-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4129
4133	22-S&T_High (Short-Turbine-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4130
4134	22-S&T_High (Short-Turbine-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4131
4136	22-S&T_High (Short-Turbine-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4133
4137	22-S&T_High (Short-Turbine-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4134
4138	22-S&T_High (Short-Turbine-Sphere)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4135
4139	22-S&T_High (Short-Turbine-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4136
4140	22-S&T_High (Short-Turbine-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4137
4141	22-S&T_High (Short-Turbine-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4138
4142	22-S&T_High (Short-Turbine-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4139
4143	22-S&T_High (Short-Turbine-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4140
4145	22-S&T_High (Short-Turbine-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4142
4146	22-S&T_High (Short-Turbine-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4143
4147	22-S&T_High (Short-Turbine-Sphere)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4144
4148	22-S&T_High (Short-Turbine-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4145
4149	22-S&T_High (Short-Turbine-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4146
4150	22-S&T_High (Short-Turbine-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4147
4151	22-S&T_High (Short-Turbine-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4148
4152	22-S&T_High (Short-Turbine-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4149
4154	22-S&T_High (Short-Turbine-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4151
4155	22-S&T_High (Short-Turbine-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4152
4156	22-S&T_High (Short-Turbine-Sphere)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4153
4157	22-S&T_High (Short-Turbine-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4154
4158	22-S&T_High (Short-Turbine-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4155
4159	22-S&T_High (Short-Turbine-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	51.9	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4156

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4160	22-S&T_High (Short-Turbine-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4157
4161	22-S&T_High (Short-Turbine-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4158
4163	22-S&T_High (Short-Turbine-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4160
4164	22-S&T_High (Short-Turbine-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4161
4210	23-S&T_High (Short-Recip-UG)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4207
4211	23-S&T_High (Short-Recip-UG)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4208
4212	23-S&T_High (Short-Recip-UG)	2030_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4209
4213	23-S&T_High (Short-Recip-UG)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4210
4214	23-S&T_High (Short-Recip-UG)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4211
4215	23-S&T_High (Short-Recip-UG)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4212
4217	23-S&T_High (Short-Recip-UG)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4214
4218	23-S&T_High (Short-Recip-UG)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4215
4219	23-S&T_High (Short-Recip-UG)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4216
4220	23-S&T_High (Short-Recip-UG)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4217
4221	23-S&T_High (Short-Recip-UG)	2031_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4218
4222	23-S&T_High (Short-Recip-UG)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4219
4223	23-S&T_High (Short-Recip-UG)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4220
4224	23-S&T_High (Short-Recip-UG)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4221
4226	23-S&T_High (Short-Recip-UG)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4223
4227	23-S&T_High (Short-Recip-UG)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4224
4228	23-S&T_High (Short-Recip-UG)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4225
4229	23-S&T_High (Short-Recip-UG)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4226
4230	23-S&T_High (Short-Recip-UG)	2032_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4227
4231	23-S&T_High (Short-Recip-UG)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4228
4232	23-S&T_High (Short-Recip-UG)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4229
4233	23-S&T_High (Short-Recip-UG)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4230
4235	23-S&T_High (Short-Recip-UG)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4232
4236	23-S&T_High (Short-Recip-UG)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4233
4237	23-S&T_High (Short-Recip-UG)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4234
4238	23-S&T_High (Short-Recip-UG)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4235
4239	23-S&T_High (Short-Recip-UG)	2033_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4236
4240	23-S&T_High (Short-Recip-UG)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4237
4241	23-S&T_High (Short-Recip-UG)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4238
4242	23-S&T_High (Short-Recip-UG)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4239
4244	23-S&T_High (Short-Recip-UG)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4241
4245	23-S&T_High (Short-Recip-UG)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4242
4246	23-S&T_High (Short-Recip-UG)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4243

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4247	23-S&T_High (Short-Recip-UG)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4244
4248	23-S&T_High (Short-Recip-UG)	2034_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4245
4249	23-S&T_High (Short-Recip-UG)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4246
4250	23-S&T_High (Short-Recip-UG)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4247
4251	23-S&T_High (Short-Recip-UG)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4248
4253	23-S&T_High (Short-Recip-UG)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4250
4254	23-S&T_High (Short-Recip-UG)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4251
4255	23-S&T_High (Short-Recip-UG)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4252
4256	23-S&T_High (Short-Recip-UG)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4253
4257	23-S&T_High (Short-Recip-UG)	2035_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4254
4258	23-S&T_High (Short-Recip-UG)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4255
4259	23-S&T_High (Short-Recip-UG)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4256
4260	23-S&T_High (Short-Recip-UG)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4257
4262	23-S&T_High (Short-Recip-UG)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4259
4263	23-S&T_High (Short-Recip-UG)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4260
4264	23-S&T_High (Short-Recip-UG)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4261
4265	23-S&T_High (Short-Recip-UG)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4262
4266	23-S&T_High (Short-Recip-UG)	2036_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4263
4267	23-S&T_High (Short-Recip-UG)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4264
4268	23-S&T_High (Short-Recip-UG)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4265
4269	23-S&T_High (Short-Recip-UG)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4266
4271	23-S&T_High (Short-Recip-UG)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4268
4272	23-S&T_High (Short-Recip-UG)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4269
4273	23-S&T_High (Short-Recip-UG)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4270
4274	23-S&T_High (Short-Recip-UG)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4271
4275	23-S&T_High (Short-Recip-UG)	2037_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4272
4276	23-S&T_High (Short-Recip-UG)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4273
4277	23-S&T_High (Short-Recip-UG)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4274
4278	23-S&T_High (Short-Recip-UG)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4275
4280	23-S&T_High (Short-Recip-UG)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4277
4281	23-S&T_High (Short-Recip-UG)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4278
4282	23-S&T_High (Short-Recip-UG)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4279
4283	23-S&T_High (Short-Recip-UG)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4280
4284	23-S&T_High (Short-Recip-UG)	2038_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4281
4285	23-S&T_High (Short-Recip-UG)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4282
4286	23-S&T_High (Short-Recip-UG)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4283
4287	23-S&T_High (Short-Recip-UG)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4284

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4289	23-S&T_High (Short-Recip-UG)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4286
4290	23-S&T_High (Short-Recip-UG)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4287
4291	23-S&T_High (Short-Recip-UG)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4288
4292	23-S&T_High (Short-Recip-UG)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4289
4293	23-S&T_High (Short-Recip-UG)	2039_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4290
4294	23-S&T_High (Short-Recip-UG)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4291
4295	23-S&T_High (Short-Recip-UG)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4292
4296	23-S&T_High (Short-Recip-UG)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4293
4298	23-S&T_High (Short-Recip-UG)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4295
4299	23-S&T_High (Short-Recip-UG)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4296
4300	23-S&T_High (Short-Recip-UG)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4297
4301	23-S&T_High (Short-Recip-UG)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4298
4302	23-S&T_High (Short-Recip-UG)	2040_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4299
4303	23-S&T_High (Short-Recip-UG)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4300
4304	23-S&T_High (Short-Recip-UG)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4301
4305	23-S&T_High (Short-Recip-UG)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4302
4307	23-S&T_High (Short-Recip-UG)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4304
4308	23-S&T_High (Short-Recip-UG)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4305
4309	23-S&T_High (Short-Recip-UG)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4306
4310	23-S&T_High (Short-Recip-UG)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4307
4311	23-S&T_High (Short-Recip-UG)	2041_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4308
4312	23-S&T_High (Short-Recip-UG)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4309
4313	23-S&T_High (Short-Recip-UG)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4310
4314	23-S&T_High (Short-Recip-UG)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4311
4316	23-S&T_High (Short-Recip-UG)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4313
4317	23-S&T_High (Short-Recip-UG)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4314
4318	23-S&T_High (Short-Recip-UG)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4315
4319	23-S&T_High (Short-Recip-UG)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4316
4320	23-S&T_High (Short-Recip-UG)	2042_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4317
4321	23-S&T_High (Short-Recip-UG)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4318
4322	23-S&T_High (Short-Recip-UG)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4319
4323	23-S&T_High (Short-Recip-UG)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4320
4325	23-S&T_High (Short-Recip-UG)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4322
4326	23-S&T_High (Short-Recip-UG)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4323
4327	23-S&T_High (Short-Recip-UG)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4324
4328	23-S&T_High (Short-Recip-UG)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4325
4329	23-S&T_High (Short-Recip-UG)	2043_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4326

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1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4330	23-S&T_High (Short-Recip-UG)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4327
4331	23-S&T_High (Short-Recip-UG)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4328
4332	23-S&T_High (Short-Recip-UG)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4329
4334	23-S&T_High (Short-Recip-UG)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4331
4335	23-S&T_High (Short-Recip-UG)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4332
4336	23-S&T_High (Short-Recip-UG)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4333
4337	23-S&T_High (Short-Recip-UG)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4334
4338	23-S&T_High (Short-Recip-UG)	2044_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4335
4339	23-S&T_High (Short-Recip-UG)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4336
4340	23-S&T_High (Short-Recip-UG)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4337
4341	23-S&T_High (Short-Recip-UG)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4338
4343	23-S&T_High (Short-Recip-UG)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4340
4344	23-S&T_High (Short-Recip-UG)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4341
4345	23-S&T_High (Short-Recip-UG)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4342
4346	23-S&T_High (Short-Recip-UG)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4343
4347	23-S&T_High (Short-Recip-UG)	2045_H2	Compression Energy (MJ/kg)	14	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4344
4348	23-S&T_High (Short-Recip-UG)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4345
4349	23-S&T_High (Short-Recip-UG)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4346
4350	23-S&T_High (Short-Recip-UG)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4347
4352	23-S&T_High (Short-Recip-UG)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4349
4353	23-S&T_High (Short-Recip-UG)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4350
4399	24-S&T_High (Short-Recip-Sphere)	2030_H2	Hydrogen (MMBtu/)	126886641.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4396
4400	24-S&T_High (Short-Recip-Sphere)	2030_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4397
4401	24-S&T_High (Short-Recip-Sphere)	2030_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4398
4402	24-S&T_High (Short-Recip-Sphere)	2030_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4399
4403	24-S&T_High (Short-Recip-Sphere)	2030_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4400
4404	24-S&T_High (Short-Recip-Sphere)	2030_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4401
4406	24-S&T_High (Short-Recip-Sphere)	2030_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4403
4407	24-S&T_High (Short-Recip-Sphere)	2030_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4404
4408	24-S&T_High (Short-Recip-Sphere)	2031_H2	Hydrogen (MMBtu/)	149054169.1	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4405
4409	24-S&T_High (Short-Recip-Sphere)	2031_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4406
4410	24-S&T_High (Short-Recip-Sphere)	2031_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4407
4411	24-S&T_High (Short-Recip-Sphere)	2031_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4408
4412	24-S&T_High (Short-Recip-Sphere)	2031_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4409
4413	24-S&T_High (Short-Recip-Sphere)	2031_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4410
4415	24-S&T_High (Short-Recip-Sphere)	2031_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4412
4416	24-S&T_High (Short-Recip-Sphere)	2031_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4413

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2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4417	24-S&T_High (Short-Recip-Sphere)	2032_H2	Hydrogen (MMBtu/)	173491362.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4414
4418	24-S&T_High (Short-Recip-Sphere)	2032_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4415
4419	24-S&T_High (Short-Recip-Sphere)	2032_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4416
4420	24-S&T_High (Short-Recip-Sphere)	2032_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4417
4421	24-S&T_High (Short-Recip-Sphere)	2032_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4418
4422	24-S&T_High (Short-Recip-Sphere)	2032_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4419
4424	24-S&T_High (Short-Recip-Sphere)	2032_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4421
4425	24-S&T_High (Short-Recip-Sphere)	2032_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4422
4426	24-S&T_High (Short-Recip-Sphere)	2033_H2	Hydrogen (MMBtu/)	200485117.2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4423
4427	24-S&T_High (Short-Recip-Sphere)	2033_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4424
4428	24-S&T_High (Short-Recip-Sphere)	2033_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4425
4429	24-S&T_High (Short-Recip-Sphere)	2033_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4426
4430	24-S&T_High (Short-Recip-Sphere)	2033_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4427
4431	24-S&T_High (Short-Recip-Sphere)	2033_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4428
4433	24-S&T_High (Short-Recip-Sphere)	2033_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4430
4434	24-S&T_High (Short-Recip-Sphere)	2033_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4431
4435	24-S&T_High (Short-Recip-Sphere)	2034_H2	Hydrogen (MMBtu/)	230240132.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4432
4436	24-S&T_High (Short-Recip-Sphere)	2034_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4433
4437	24-S&T_High (Short-Recip-Sphere)	2034_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4434
4438	24-S&T_High (Short-Recip-Sphere)	2034_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4435
4439	24-S&T_High (Short-Recip-Sphere)	2034_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4436
4440	24-S&T_High (Short-Recip-Sphere)	2034_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4437
4442	24-S&T_High (Short-Recip-Sphere)	2034_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4439
4443	24-S&T_High (Short-Recip-Sphere)	2034_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4440
4444	24-S&T_High (Short-Recip-Sphere)	2035_H2	Hydrogen (MMBtu/)	262745046.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4441
4445	24-S&T_High (Short-Recip-Sphere)	2035_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4442
4446	24-S&T_High (Short-Recip-Sphere)	2035_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4443
4447	24-S&T_High (Short-Recip-Sphere)	2035_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4444
4448	24-S&T_High (Short-Recip-Sphere)	2035_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4445
4449	24-S&T_High (Short-Recip-Sphere)	2035_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4446
4451	24-S&T_High (Short-Recip-Sphere)	2035_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4448
4452	24-S&T_High (Short-Recip-Sphere)	2035_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4449
4453	24-S&T_High (Short-Recip-Sphere)	2036_H2	Hydrogen (MMBtu/)	296544623.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4450
4454	24-S&T_High (Short-Recip-Sphere)	2036_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4451
4455	24-S&T_High (Short-Recip-Sphere)	2036_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4452
4456	24-S&T_High (Short-Recip-Sphere)	2036_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4453
4457	24-S&T_High (Short-Recip-Sphere)	2036_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4454

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2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4458	24-S&T_High (Short-Recip-Sphere)	2036_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4455
4460	24-S&T_High (Short-Recip-Sphere)	2036_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4457
4461	24-S&T_High (Short-Recip-Sphere)	2036_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4458
4462	24-S&T_High (Short-Recip-Sphere)	2037_H2	Hydrogen (MMBtu/)	333310118.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4459
4463	24-S&T_High (Short-Recip-Sphere)	2037_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4460
4464	24-S&T_High (Short-Recip-Sphere)	2037_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4461
4465	24-S&T_High (Short-Recip-Sphere)	2037_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4462
4466	24-S&T_High (Short-Recip-Sphere)	2037_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4463
4467	24-S&T_High (Short-Recip-Sphere)	2037_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4464
4469	24-S&T_High (Short-Recip-Sphere)	2037_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4466
4470	24-S&T_High (Short-Recip-Sphere)	2037_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4467
4471	24-S&T_High (Short-Recip-Sphere)	2038_H2	Hydrogen (MMBtu/)	370083058.7	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4468
4472	24-S&T_High (Short-Recip-Sphere)	2038_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4469
4473	24-S&T_High (Short-Recip-Sphere)	2038_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4470
4474	24-S&T_High (Short-Recip-Sphere)	2038_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4471
4475	24-S&T_High (Short-Recip-Sphere)	2038_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4472
4476	24-S&T_High (Short-Recip-Sphere)	2038_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4473
4478	24-S&T_High (Short-Recip-Sphere)	2038_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4475
4479	24-S&T_High (Short-Recip-Sphere)	2038_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4476
4480	24-S&T_High (Short-Recip-Sphere)	2039_H2	Hydrogen (MMBtu/)	408188959.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4477
4481	24-S&T_High (Short-Recip-Sphere)	2039_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4478
4482	24-S&T_High (Short-Recip-Sphere)	2039_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4479
4483	24-S&T_High (Short-Recip-Sphere)	2039_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4480
4484	24-S&T_High (Short-Recip-Sphere)	2039_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4481
4485	24-S&T_High (Short-Recip-Sphere)	2039_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4482
4487	24-S&T_High (Short-Recip-Sphere)	2039_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4484
4488	24-S&T_High (Short-Recip-Sphere)	2039_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4485
4489	24-S&T_High (Short-Recip-Sphere)	2040_H2	Hydrogen (MMBtu/)	448126955.5	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4486
4490	24-S&T_High (Short-Recip-Sphere)	2040_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4487
4491	24-S&T_High (Short-Recip-Sphere)	2040_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4488
4492	24-S&T_High (Short-Recip-Sphere)	2040_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4489
4493	24-S&T_High (Short-Recip-Sphere)	2040_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4490
4494	24-S&T_High (Short-Recip-Sphere)	2040_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4491
4496	24-S&T_High (Short-Recip-Sphere)	2040_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4493
4497	24-S&T_High (Short-Recip-Sphere)	2040_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4494
4498	24-S&T_High (Short-Recip-Sphere)	2041_H2	Hydrogen (MMBtu/)	488985592.8	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4495
4499	24-S&T_High (Short-Recip-Sphere)	2041_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4496

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1					
2	**Tab Contents**				
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4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	Equipment ID	*Fuel Type*	*Parameter*	Value	Reference
4500	24-S&T_High (Short-Recip-Sphere)	2041_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4497
4501	24-S&T_High (Short-Recip-Sphere)	2041_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4498
4502	24-S&T_High (Short-Recip-Sphere)	2041_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4499
4503	24-S&T_High (Short-Recip-Sphere)	2041_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4500
4505	24-S&T_High (Short-Recip-Sphere)	2041_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4502
4506	24-S&T_High (Short-Recip-Sphere)	2041_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4503
4507	24-S&T_High (Short-Recip-Sphere)	2042_H2	Hydrogen (MMBtu/)	531870935.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4504
4508	24-S&T_High (Short-Recip-Sphere)	2042_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4505
4509	24-S&T_High (Short-Recip-Sphere)	2042_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4506
4510	24-S&T_High (Short-Recip-Sphere)	2042_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4507
4511	24-S&T_High (Short-Recip-Sphere)	2042_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4508
4512	24-S&T_High (Short-Recip-Sphere)	2042_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4509
4514	24-S&T_High (Short-Recip-Sphere)	2042_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4511
4515	24-S&T_High (Short-Recip-Sphere)	2042_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4512
4516	24-S&T_High (Short-Recip-Sphere)	2043_H2	Hydrogen (MMBtu/)	576956761.4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4513
4517	24-S&T_High (Short-Recip-Sphere)	2043_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4514
4518	24-S&T_High (Short-Recip-Sphere)	2043_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4515
4519	24-S&T_High (Short-Recip-Sphere)	2043_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4516
4520	24-S&T_High (Short-Recip-Sphere)	2043_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4517
4521	24-S&T_High (Short-Recip-Sphere)	2043_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4518
4523	24-S&T_High (Short-Recip-Sphere)	2043_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4520
4524	24-S&T_High (Short-Recip-Sphere)	2043_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4521
4525	24-S&T_High (Short-Recip-Sphere)	2044_H2	Hydrogen (MMBtu/)	623776900.6	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4522
4526	24-S&T_High (Short-Recip-Sphere)	2044_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4523
4527	24-S&T_High (Short-Recip-Sphere)	2044_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4524
4528	24-S&T_High (Short-Recip-Sphere)	2044_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4525
4529	24-S&T_High (Short-Recip-Sphere)	2044_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4526
4530	24-S&T_High (Short-Recip-Sphere)	2044_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4527
4532	24-S&T_High (Short-Recip-Sphere)	2044_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4529
4533	24-S&T_High (Short-Recip-Sphere)	2044_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4530
4534	24-S&T_High (Short-Recip-Sphere)	2045_H2	Hydrogen (MMBtu/)	672551001	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4531
4535	24-S&T_High (Short-Recip-Sphere)	2045_H2	% H2 Stored (scf/100-scf)	13.82827017	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4532
4536	24-S&T_High (Short-Recip-Sphere)	2045_H2	Compression Energy (MJ/kg)	4	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4533
4537	24-S&T_High (Short-Recip-Sphere)	2045_H2	Efficiency (MMBtu/100-MMBtu)	60.3	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4534
4538	24-S&T_High (Short-Recip-Sphere)	2045_H2	Pipeline Length (mi/)	450	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4535
4539	24-S&T_High (Short-Recip-Sphere)	2045_H2	H2 Consumption Per Km (MMBtu/100-MMBtu * km)	0.009333333	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4536
4541	24-S&T_High (Short-Recip-Sphere)	2045_H2	O2 Percent (scf/100-scf)	15	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4538

	A	C	D	E	F
1					
2	**Tab Contents**				
3	This workbook contains select tabs (including this one) from a proprietary Stantec calculation tool. This data is copied from "ALP1_GHG_S&T_1_DataPrep_SoCalGas", "1. Data_Prep_S&T" tab. The input data in this tab was processed through the function in "3.1 EQ S&T" to produce the results in "4. Calculations".				
4	In this workbook, the terms "Low", "Mid", and "High" correspond to the "Conservative", "Moderate", and "Ambitious" market scenarios.				
5					
6	**Equipment ID**	***Fuel Type***	***Parameter***	**Value**	**Reference**
4542	24-S&T_High (Short-Recip-Sphere)	2045_H2	H2 N2O EF (ppm/)	2	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY4539

Sample Emission Calculation

9-S&T_Mid (Long-Turbine-UG) 2035_H2

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Emissions are calculated using the following equation(s):

> **Stored Hydrogen (kg) = Hydrogen (MMBtu) x % H2 Stored (scf/100-scf) ÷ HHV-lb H2 (Btu/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Conv (lb-kg) (lb/kg)**
>
> **H2 for Storage Compression (MMBtu) = Stored H2 (kg) x Compression Energy (MJ/kg) x Conv (J-MJ) (J/MJ) ÷ Conv (Btu-J) (J/Btu) ÷ Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Efficiency (MMBtu/100-MMBtu)**
>
> **H2 for Transmission Compression (MMBtu) = Hydrogen (MMBtu) x Pipeline Length (mi) x Conv (km-mi) (km/mi) x H2 Consumption Per Km (MMBtu/100-MMBtu * km)**
>
> **Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)**
>
> **100%-H2 N2O EF (MT/MMBtu) = H2 N2O EF (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)**
>
> **Storage Compressor N2O (MT N2O) = Storage Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)**
>
> **Transmission Compressor N2O (MT N2O) = Transmission Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)**
>
> **Overall N2O (MT N2O) = Storage Compressor N2O (MT N2O) + Transmission Compressor N2O (MT N2O)**
>
> **Storage Compressor GHG (MT CO2e) = Storage Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)**
>
> **Transmission Compressor GHG (MT CO2e) = Transmission Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)**
>
> **Overall GHG (MT CO2e) = Overall N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)**

Where:

> Hydrogen (MMBtu/) = Annual hydrogen demand
>
> % H2 Stored (scf/100-scf) = Percent of annual hydrogen demand that is stored
>
> Compression Energy (MJ/kg) = Energy required for compression (varies by storage-scenario)
>
> Efficiency (MMBtu/100-MMBtu) = Combustion efficiency (varies by compressor-drive scenario)
>
> Pipeline Length (mi/) = Transmission distance
>
> H2 Consumption Per Km (MMBtu/100-MMBtu * km) = Hydrogen consumption per unit of transmission distance
>
> H2 N2O EF (ppm/) = Hydrogen N2O emission factor
>
> O2 Percent (scf/100-scf = Combustion oxygen percent (for equipment category)

Using the following parameter values:

Sample Emission Calculation

9-S&T_Mid (Long-Turbine-UG) 2035_H2

10/15/2024

Table 1. S&T Calculation Inputs

Parameter	Value	Units	Resource
Hydrogen	102,244,522.45	MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1606
% H2 Stored	13.83	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1607
Compression Energy	14.00	MJ/kg	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1608
Efficiency	51.90	MMBtu/100-MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1609
Pipeline Length	450.00	mi	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1610
H2 Consumption Per Km	0.009333	MMBtu/(100-MMBtu * km)	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1611
Correction 100%-H2 Ratio	1.370000	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
H2 N2O EF	2.000000	ppm	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1614
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (Btu-J)	1,055.06	J/Btu	https://www.unitconverters.net/energy/joule-to-btu-it.htm
Conv (J-MJ)	1,000,000.00	J/MJ	

Sample Emission Calculation

9-S&T_Mid (Long-Turbine-UG) 2035_H2

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Parameter	Value	Units	Resource
Conv (km-mi)	1.609344	km/mi	https://www.unitconverters.net/length/km-to-miles.htm
Conv (Conc-ppm)	1,000,000.000000	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-ton)	2,000.000000	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
Conv (lb-kg)	2.205000	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (kg-MT)	1,000.000000	kg/MT	
O2 Percent	15.000000	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1613
O2 Correction	3.542373	scf/scf	Calculated: 20.9/(20.9 - O2 percent)
Molar Volume @ 68 F	385.220000	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
Specific Weight H2	364.000000	scf/lb	Jahnke, 1993. Appendix A.
Fd (H2 @ 68 F)	5,975.049245	scf/MMBtu	Calculated Below
GWP N2O	273.000000	MT CO2e/MT N2O	IPCC AR6
MW (N2O)	44.010000	lb/pmole	
Stored H2	105,254,196.04	kg	Calculated Below
Storage Compressor H2	2,691,067.834135	MMBtu	Calculated Below
Transmission Compressor H2	6,910,957.567000	MMBtu	Calculated Below
100%-H2 N2O EF	0.000002	MT N2O/MMBtu	Calculated Below

Sample Emission Calculation

9-S&T_Mid (Long-Turbine-UG) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Storage Compressor N2O	5.902342	MT N2O	Calculated Below
Transmission Compressor N2O	15.157861	MT N2O	Calculated Below
Overall N2O	21.060203	MT N2O	Calculated Below

Stored Hydrogen (kg) = 102,244,522.450196 (MMBtu) x 13.8282702 (scf/100-scf) ÷ 60,920.0 (Btu/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 2.205 (lb/kg) = 105,254,196.040634 (kg)

H2 for Storage Compression (MMBtu) = 105,254,196.040634 (kg) x 14.0 (MJ/kg) x 1,000,000.0 (J/MJ) ÷ 1,055.0558526 (J/Btu) ÷ 1,000,000.0 (Btu/MMBtu) ÷ 51.9 (MMBtu/100-MMBtu) = 2,691,067.8341354 (MMBtu)

H2 for Transmission Compression (MMBtu) = 102,244,522.450196 (MMBtu) x 450.0 (mi) x 1.609344 (km/mi) x 0.0093333 (MMBtu/100-MMBtu * km) = 6,910,957.5669997 (MMBtu)

Fd (H2 @ 68 F) (scf/MMBtu) = 364 (scf/lb) x 1,000,000 (Btu/MMBtu) ÷ 60,920 (Btu/lb) = 5975 (scf/MMBtu)

100%-H2 N2O EF (MT/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.01 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Storage Compressor N2O (MT N2O) = 2,691,067.8341354 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 5.9023418 (MT N2O)

Transmission Compressor N2O (MT N2O) = 6,910,957.5669997 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 15.1578615 (MT N2O)

Overall N2O (MT N2O) = 5.9023418 (MT N2O) + 15.1578615 (MT N2O) = 21.0602032 (MT N2O)

Storage Compressor GHG (MT CO2e) = 5.9023418 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 1,611.339299 (MT CO2e)

Transmission Compressor GHG (MT CO2e) = 15.1578615 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 4,138.0961788 (MT CO2e)

Overall GHG (MT CO2e) = 21.0602032 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 5,749.4354777 (MT CO2e)

Sample Emission Calculation

10-S&T_Mid (Long-Turbine-Sphere) 2035_H2

10/15/2024

Emissions are calculated using the following equation(s):

Stored Hydrogen (kg) = Hydrogen (MMBtu) x % H2 Stored (scf/100-scf) ÷ HHV-lb H2 (Btu/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Conv (lb-kg) (lb/kg)

H2 for Storage Compression (MMBtu) = Stored H2 (kg) x Compression Energy (MJ/kg) x Conv (J-MJ) (J/MJ) ÷ Conv (Btu-J) (J/Btu) ÷ Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Efficiency (MMBtu/100-MMBtu)

H2 for Transmission Compression (MMBtu) = Hydrogen (MMBtu) x Pipeline Length (mi) x Conv (km-mi) (km/mi) x H2 Consumption Per Km (MMBtu/100-MMBtu * km)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

100%-H2 N2O EF (MT/MMBtu) = H2 N2O EF (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Storage Compressor N2O (MT N2O) = Storage Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)

Transmission Compressor N2O (MT N2O) = Transmission Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)

Overall N2O (MT N2O) = Storage Compressor N2O (MT N2O) + Transmission Compressor N2O (MT N2O)

Storage Compressor GHG (MT CO2e) = Storage Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Transmission Compressor GHG (MT CO2e) = Transmission Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Overall GHG (MT CO2e) = Overall N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Where:

Hydrogen (MMBtu/) = Annual hydrogen demand

% H2 Stored (scf/100-scf) = Percent of annual hydrogen demand that is stored

Compression Energy (MJ/kg) = Energy required for compression (varies by storage-scenario)

Efficiency (MMBtu/100-MMBtu) = Combustion efficiency (varies by compressor-drive scenario)

Pipeline Length (mi/) = Transmission distance

H2 Consumption Per Km (MMBtu/100-MMBtu * km) = Hydrogen consumption per unit of transmission distance

H2 N2O EF (ppm/) = Hydrogen N2O emission factor

O2 Percent (scf/100-scf = Combustion oxygen percent (for equipment category)

Using the following parameter values:

Sample Emission Calculation

10-S&T_Mid (Long-Turbine-Sphere) 2035_H2

10/15/2024

Table 1. S&T Calculation Inputs

Parameter	Value	Units	Resource
Hydrogen	102,244,522.45	MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1795
% H2 Stored	13.83	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1796
Compression Energy	4.00	MJ/kg	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1797
Efficiency	51.90	MMBtu/100-MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1798
Pipeline Length	450.00	mi	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1799
H2 Consumption Per Km	0.009333	MMBtu/(100-MMBtu * km)	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1800
Correction 100%-H2 Ratio	1.370000	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
H2 N2O EF	2.000000	ppm	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1803
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (Btu-J)	1,055.06	J/Btu	https://www.unitconverters.net/energy/joule-to-btu-it.htm
Conv (J-MJ)	1,000,000.00	J/MJ	

Sample Emission Calculation

10-S&T_Mid (Long-Turbine-Sphere) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Conv (km-mi)	1.609344	km/mi	https://www.unitconverters.net/length/km-to-miles.htm
Conv (Conc-ppm)	1,000,000.000000	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-ton)	2,000.000000	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
Conv (lb-kg)	2.205000	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (kg-MT)	1,000.000000	kg/MT	
O2 Percent	15.000000	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1802
O2 Correction	3.542373	scf/scf	Calculated: 20.9/(20.9 - O2 percent)
Molar Volume @ 68 F	385.220000	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
Specific Weight H2	364.000000	scf/lb	Jahnke, 1993. Appendix A.
Fd (H2 @ 68 F)	5,975.049245	scf/MMBtu	Calculated Below
GWP N2O	273.000000	MT CO2e/MT N2O	IPCC AR6
MW (N2O)	44.010000	lb/pmole	
Stored H2	105,254,196.04	kg	Calculated Below
Storage Compressor H2	768,876.524039	MMBtu	Calculated Below
Transmission Compressor H2	6,910,957.567000	MMBtu	Calculated Below
100%-H2 N2O EF	0.000002	MT N2O/MMBtu	Calculated Below

Sample Emission Calculation

10-S&T_Mid (Long-Turbine-Sphere) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Storage Compressor N2O	1.686383	MT N2O	Calculated Below
Transmission Compressor N2O	15.157861	MT N2O	Calculated Below
Overall N2O	16.844245	MT N2O	Calculated Below

Stored Hydrogen (kg) = 102,244,522.450196 (MMBtu) x 13.8282702 (scf/100-scf) ÷ 60,920.0 (Btu/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 2.205 (lb/kg) = 105,254,196.040634 (kg)

H2 for Storage Compression (MMBtu) = 105,254,196.040634 (kg) x 4.0 (MJ/kg) x 1,000,000.0 (J/MJ) ÷ 1,055.0558526 (J/Btu) ÷ 1,000,000.0 (Btu/MMBtu) ÷ 51.9 (MMBtu/100-MMBtu) = 768,876.5240387 (MMBtu)

H2 for Transmission Compression (MMBtu) = 102,244,522.450196 (MMBtu) x 450.0 (mi) x 1.609344 (km/mi) x 0.0093333 (MMBtu/100-MMBtu * km) = 6,910,957.5669997 (MMBtu)

Fd (H2 @ 68 F) (scf/MMBtu) = 364 (scf/lb) x 1,000,000 (Btu/MMBtu) ÷ 60,920 (Btu/lb) = 5975 (scf/MMBtu)

100%-H2 N2O EF (MT/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.01 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Storage Compressor N2O (MT N2O) = 768,876.5240387 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 1.6863834 (MT N2O)

Transmission Compressor N2O (MT N2O) = 6,910,957.5669997 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 15.1578615 (MT N2O)

Overall N2O (MT N2O) = 1.6863834 (MT N2O) + 15.1578615 (MT N2O) = 16.8442448 (MT N2O)

Storage Compressor GHG (MT CO2e) = 1.6863834 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 460.3826568 (MT CO2e)

Transmission Compressor GHG (MT CO2e) = 15.1578615 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 4,138.0961788 (MT CO2e)

Overall GHG (MT CO2e) = 16.8442448 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 4,598.4788356 (MT CO2e)

Sample Emission Calculation

11-S&T_Mid (Long-Recip-UG) 2035_H2

10/15/2024

Emissions are calculated using the following equation(s):

Stored Hydrogen (kg) = Hydrogen (MMBtu) x % H2 Stored (scf/100-scf) ÷ HHV-lb H2 (Btu/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Conv (lb-kg) (lb/kg)

H2 for Storage Compression (MMBtu) = Stored H2 (kg) x Compression Energy (MJ/kg) x Conv (J-MJ) (J/MJ) ÷ Conv (Btu-J) (J/Btu) ÷ Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Efficiency (MMBtu/100-MMBtu)

H2 for Transmission Compression (MMBtu) = Hydrogen (MMBtu) x Pipeline Length (mi) x Conv (km-mi) (km/mi) x H2 Consumption Per Km (MMBtu/100-MMBtu * km)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

100%-H2 N2O EF (MT/MMBtu) = H2 N2O EF (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Storage Compressor N2O (MT N2O) = Storage Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)

Transmission Compressor N2O (MT N2O) = Transmission Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)

Overall N2O (MT N2O) = Storage Compressor N2O (MT N2O) + Transmission Compressor N2O (MT N2O)

Storage Compressor GHG (MT CO2e) = Storage Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Transmission Compressor GHG (MT CO2e) = Transmission Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Overall GHG (MT CO2e) = Overall N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Where:

Hydrogen (MMBtu/) = Annual hydrogen demand

% H2 Stored (scf/100-scf) = Percent of annual hydrogen demand that is stored

Compression Energy (MJ/kg) = Energy required for compression (varies by storage-scenario)

Efficiency (MMBtu/100-MMBtu) = Combustion efficiency (varies by compressor-drive scenario)

Pipeline Length (mi/) = Transmission distance

H2 Consumption Per Km (MMBtu/100-MMBtu * km) = Hydrogen consumption per unit of transmission distance

H2 N2O EF (ppm/) = Hydrogen N2O emission factor

O2 Percent (scf/100-scf = Combustion oxygen percent (for equipment category)

Using the following parameter values:

Sample Emission Calculation

11-S&T_Mid (Long-Recip-UG) 2035_H2

10/15/2024

Table 1. S&T Calculation Inputs

Parameter	Value	Units	Resource
Hydrogen	102,244,522.45	MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1984
% H2 Stored	13.83	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1985
Compression Energy	14.00	MJ/kg	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1986
Efficiency	60.30	MMBtu/100-MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1987
Pipeline Length	450.00	mi	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1988
H2 Consumption Per Km	0.009333	MMBtu/(100-MMBtu * km)	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1989
Correction 100%-H2 Ratio	1.370000	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
H2 N2O EF	2.000000	ppm	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1992
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (Btu-J)	1,055.06	J/Btu	https://www.unitconverters.net/energy/joule-to-btu-it.htm
Conv (J-MJ)	1,000,000.00	J/MJ	

Sample Emission Calculation

11-S&T_Mid (Long-Recip-UG) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Conv (km-mi)	1.609344	km/mi	https://www.unitconverters.net/length/km-to-miles.htm
Conv (Conc-ppm)	1,000,000.000000	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-ton)	2,000.000000	lb/ton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
Conv (lb-kg)	2.205000	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (kg-MT)	1,000.000000	kg/MT	
O2 Percent	15.000000	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY1991
O2 Correction	3.542373	scf/scf	Calculated: 20.9/(20.9 - O2 percent)
Molar Volume @ 68 F	385.220000	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
Specific Weight H2	364.000000	scf/lb	Jahnke, 1993. Appendix A.
Fd (H2 @ 68 F)	5,975.049245	scf/MMBtu	Calculated Below
GWP N2O	273.000000	MT CO2e/MT N2O	IPCC AR6
MW (N2O)	44.010000	lb/pmole	
Stored H2	105,254,196.04	kg	Calculated Below
Storage Compressor H2	2,316,192.712962	MMBtu	Calculated Below
Transmission Compressor H2	6,910,957.567000	MMBtu	Calculated Below
100%-H2 N2O EF	0.000002	MT N2O/MMBtu	Calculated Below

Sample Emission Calculation

11-S&T_Mid (Long-Recip-UG) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Storage Compressor N2O	5.080125	MT N2O	Calculated Below
Transmission Compressor N2O	15.157861	MT N2O	Calculated Below
Overall N2O	20.237986	MT N2O	Calculated Below

Stored Hydrogen (kg) = 102,244,522.450196 (MMBtu) x 13.8282702 (scf/100-scf) ÷ 60,920.0 (Btu/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 2.205 (lb/kg) = 105,254,196.040634 (kg)

H2 for Storage Compression (MMBtu) = 105,254,196.040634 (kg) x 14.0 (MJ/kg) x 1,000,000.0 (J/MJ) ÷ 1,055.0558526 (J/Btu) ÷ 1,000,000.0 (Btu/MMBtu) ÷ 60.3 (MMBtu/100-MMBtu) = 2,316,192.7129623 (MMBtu)

H2 for Transmission Compression (MMBtu) = 102,244,522.450196 (MMBtu) x 450.0 (mi) x 1.609344 (km/mi) x 0.0093333 (MMBtu/100-MMBtu * km) = 6,910,957.5669997 (MMBtu)

Fd (H2 @ 68 F) (scf/MMBtu) = 364 (scf/lb) x 1,000,000 (Btu/MMBtu) ÷ 60,920 (Btu/lb) = 5975 (scf/MMBtu)

100%-H2 N2O EF (MT/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.01 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Storage Compressor N2O (MT N2O) = 2,316,192.7129623 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 5.080125 (MT N2O)

Transmission Compressor N2O (MT N2O) = 6,910,957.5669997 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 15.1578615 (MT N2O)

Overall N2O (MT N2O) = 5.080125 (MT N2O) + 15.1578615 (MT N2O) = 20.2379865 (MT N2O)

Storage Compressor GHG (MT CO2e) = 5.080125 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 1,386.874123 (MT CO2e)

Transmission Compressor GHG (MT CO2e) = 15.1578615 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 4,138.0961788 (MT CO2e)

Overall GHG (MT CO2e) = 20.2379865 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 5,524.9703018 (MT CO2e)

Sample Emission Calculation

12-S&T_Mid (Long-Recip-Sphere) 2035_H2

10/15/2024

Emissions are calculated using the following equation(s):

Stored Hydrogen (kg) = Hydrogen (MMBtu) x % H2 Stored (scf/100-scf) ÷ HHV-lb H2 (Btu/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Conv (lb-kg) (lb/kg)

H2 for Storage Compression (MMBtu) = Stored H2 (kg) x Compression Energy (MJ/kg) x Conv (J-MJ) (J/MJ) ÷ Conv (Btu-J) (J/Btu) ÷ Conv (Btu-MMBtu) (Btu/MMBtu) ÷ Efficiency (MMBtu/100-MMBtu)

H2 for Transmission Compression (MMBtu) = Hydrogen (MMBtu) x Pipeline Length (mi) x Conv (km-mi) (km/mi) x H2 Consumption Per Km (MMBtu/100-MMBtu * km)

Fd (H2 @ 68 F) (scf/MMBtu) = Specific Weight H2 (scf/lb) x Conv (Btu-MMBtu) (Btu/MMBtu) ÷ HHV-lb H2 (Btu/lb)

100%-H2 N2O EF (MT/MMBtu) = H2 N2O EF (ppm) ÷ Conv (Conc-ppm) (scf-ppm/scf) ÷ Molar Volume @ 68 F (scf/pmole) x MW (N2O) (lb/pmole) x Fd (H2 @ 68 F) (scf/MMBtu) x O2 Correction (scf/scf) ÷ Conv (lb-kg) (lb/kg) ÷ Conv (kg-MT) (kg/MT)

Storage Compressor N2O (MT N2O) = Storage Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)

Transmission Compressor N2O (MT N2O) = Transmission Compressor H2 (MMBtu) x 100%-H2 N2O EF (MT N2O/MMBtu)

Overall N2O (MT N2O) = Storage Compressor N2O (MT N2O) + Transmission Compressor N2O (MT N2O)

Storage Compressor GHG (MT CO2e) = Storage Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Transmission Compressor GHG (MT CO2e) = Transmission Compressor N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Overall GHG (MT CO2e) = Overall N2O (MT N2O) x GWP N2O (MT CO2e/MT N2O)

Where:

Hydrogen (MMBtu/) = Annual hydrogen demand

% H2 Stored (scf/100-scf) = Percent of annual hydrogen demand that is stored

Compression Energy (MJ/kg) = Energy required for compression (varies by storage-scenario)

Efficiency (MMBtu/100-MMBtu) = Combustion efficiency (varies by compressor-drive scenario)

Pipeline Length (mi/) = Transmission distance

H2 Consumption Per Km (MMBtu/100-MMBtu * km) = Hydrogen consumption per unit of transmission distance

H2 N2O EF (ppm/) = Hydrogen N2O emission factor

O2 Percent (scf/100-scf = Combustion oxygen percent (for equipment category)

Using the following parameter values:

Sample Emission Calculation

12-S&T_Mid (Long-Recip-Sphere) 2035_H2

10/15/2024

Table 1. S&T Calculation Inputs

Parameter	Value	Units	Resource
Hydrogen	102,244,522.45	MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2173
% H2 Stored	13.83	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2174
Compression Energy	4.00	MJ/kg	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2175
Efficiency	60.30	MMBtu/100-MMBtu	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2176
Pipeline Length	450.00	mi	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2177
H2 Consumption Per Km	0.009333	MMBtu/(100-MMBtu * km)	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2178
Correction 100%-H2 Ratio	1.370000	ppm/ppm	https://research.gatech.edu/sites/default/files/inline-files/gt_epri_nox_emission_h2_short_paper.pdf
H2 N2O EF	2.000000	ppm	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2181
Conv (Btu-MMBtu)	1,000,000.00	Btu/MMBtu	http://www.endmemo.com/sconvert/btummbtu.php#:~:text=Btu%E2%86%94MMBtu%201%20MMBtu%20%3D%201000000%20Btu
Conv (lb-kg)	2.21	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (Btu-J)	1,055.06	J/Btu	https://www.unitconverters.net/energy/joule-to-btu-it.htm
Conv (J-MJ)	1,000,000.00	J/MJ	

Sample Emission Calculation

12-S&T_Mid (Long-Recip-Sphere) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Conv (km-mi)	1.609344	km/mi	https://www.unitconverters.net/length/km-to-miles.htm
Conv (Conc-ppm)	1,000,000.000000	scf-ppm/scf	https://www.omnicalculator.com/conversion/ppm
Conv (lb-ton)	2,000.000000	lbton	https://www.unitconverters.net/weight-and-mass/ton-to-lbs.htm
Conv (lb-kg)	2.205000	lb/kg	https://www.unitconverters.net/weight-and-mass/kg-to-lbs.htm
Conv (kg-MT)	1,000.000000	kg/MT	
O2 Percent	15.000000	scf/100-scf	ALP1_GHG_S&T_1_DataPrep_SoCalGas.xlsx, 1. Data_Prep_S&T, Cell AY2180
O2 Correction	3.542373	scf/scf	Calculated: 20.9/(20.9 - O2 percent)
Molar Volume @ 68 F	385.220000	scf/pmole	https://stantec.sharepoint.com/sites/AtmosphericSciences-ES/Shared%20Documents/Shared%20Content%20and%20Examples/Emissions%20Management%20Tool/Calculation%20Sheets%20for%20Import/EQ%20Molar%20Volume.xlsm
HHV-lb H2	60,920.00	Btu/lb	https://www.engineeringtoolbox.com/fuels-higher-calorific-values-d_169.html
Specific Weight H2	364.000000	scf/lb	Jahnke, 1993. Appendix A.
Fd (H2 @ 68 F)	5,975.049245	scf/MMBtu	Calculated Below
GWP N2O	273.000000	MT CO2e/MT N2O	IPCC AR6
MW (N2O)	44.010000	lb/pmole	
Stored H2	105,254,196.04	kg	Calculated Below
Storage Compressor H2	661,769.346561	MMBtu	Calculated Below
Transmission Compressor H2	6,910,957.567000	MMBtu	Calculated Below
100%-H2 N2O EF	0.000002	MT N2O/MMBtu	Calculated Below

Sample Emission Calculation

12-S&T_Mid (Long-Recip-Sphere) 2035_H2

10/15/2024

Parameter	Value	Units	Resource
Storage Compressor N2O	1.451464	MT N2O	Calculated Below
Transmission Compressor N2O	15.157861	MT N2O	Calculated Below
Overall N2O	16.609326	MT N2O	Calculated Below

Stored Hydrogen (kg) = 102,244,522.450196 (MMBtu) x 13.8282702 (scf/100-scf) ÷ 60,920.0 (Btu/lb) x 1,000,000.0 (Btu/MMBtu) ÷ 2.205 (lb/kg) = 105,254,196.040634 (kg)

H2 for Storage Compression (MMBtu) = 105,254,196.040634 (kg) x 4.0 (MJ/kg) x 1,000,000.0 (J/MJ) ÷ 1,055.0558526 (J/Btu) ÷ 1,000,000.0 (Btu/MMBtu) ÷ 60.3 (MMBtu/100-MMBtu) = 661,769.3465607 (MMBtu)

H2 for Transmission Compression (MMBtu) = 102,244,522.450196 (MMBtu) x 450.0 (mi) x 1.609344 (km/mi) x 0.0093333 (MMBtu/100-MMBtu * km) = 6,910,957.5669997 (MMBtu)

Fd (H2 @ 68 F) (scf/MMBtu) = 364 (scf/lb) x 1,000,000 (Btu/MMBtu) ÷ 60,920 (Btu/lb) = 5975 (scf/MMBtu)

100%-H2 N2O EF (MT/MMBtu) = 2.0 (ppm) ÷ 1,000,000.0 (scf-ppm/scf) ÷ 385.22 (scf/pmole) x 44.01 (lb/pmole) x 5,975.0492449 (scf/MMBtu) x 3.5423729 (scf/scf) ÷ 2.205 (lb/kg) ÷ 1,000.0 (kg/MT) = 0.0000022 (MT/MMBtu)

Storage Compressor N2O (MT N2O) = 661,769.3465607 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 1.4514643 (MT N2O)

Transmission Compressor N2O (MT N2O) = 6,910,957.5669997 (MMBtu) x 0.0000022 (MT N2O/MMBtu) = 15.1578615 (MT N2O)

Overall N2O (MT N2O) = 1.4514643 (MT N2O) + 15.1578615 (MT N2O) = 16.6093257 (MT N2O)

Storage Compressor GHG (MT CO2e) = 1.4514643 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 396.2497494 (MT CO2e)

Transmission Compressor GHG (MT CO2e) = 15.1578615 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 4,138.0961788 (MT CO2e)

Overall GHG (MT CO2e) = 16.6093257 (MT N2O) x 273.0 (MT CO2e/MT N2O) = 4,534.3459282 (MT CO2e)