

Notes:
 Please round all natural gas emissions to nearest Mcf.
 As a reminder, please use the latest version of each of the worksheets.

Summary Tables:

System Categories	Emission Source Categories	Fugitive or Vented	For Informational and Reference Purposes Only - Original 2015 Baseline Emissions (Mcf)	Proposed Adjusted 2015 Baseline Emissions (Mcf)	2022 Total Annual Volume of Leaks & Emissions (Mcf)	2022 Total Annual Count of Leak & Emission Items	2023 Total Annual Volume of Leaks & Emissions (Mcf)	2023 Total Annual Count of Leak & Emission Items	Emission Change for Year Over Year Comparison from 2022 to 2023 (Mcf)	Percentage Change for Year Over Year Comparison from 2022 to 2023	Count Change for Year Over Year Comparison from 2022 to 2023	Percentage Change for Year Over Year Comparison from 2022 to 2023	Emission Change for Year Over Year Comparison from 2015 to 2023 (Mcf)	Percentage Change for Year Over Year Comparison from 2015 to 2023	Explanation for Significant Percentage Change for Year Over Year Comparison from 2022 to 2023	
Transmission Pipelines	Pipeline Leaks	Fugitive	1,324	1,324	NA	1,273	Total System Mileage: 3,181	1,270	Total System Mileage: 3,181	11	(0.7%)	(0)	(51)	(3.7%)	Damage emissions decreased year-over-year because the damages that occurred during 2023 were significantly smaller than the damage that occurred during 2022.	
	All Damages	Fugitive	0	0	NA	24,260	Number of emission items: 1	7,461	Number of emission items: 2	(17,629)	(27.7%)	1	100.0%	7,461	(100.0%)	The reduction in blowdown emissions year-over-year can be attributed to SoCalGas's continued efforts to release less gas during scheduled gas pipeline repairs.
	Blowdowns	Vented	190,970	190,970	NA	18,819	Number of blowdown events: 2,452	11,795	Number of blowdown events: 2,450	(72,616)	(37.4%)	18	0.7%	(181,151)	(94.3%)	
	Component Ventd Emissions	Vented	0	8,182	NA	1,108	Number of devices: 17	1,108	Number of devices: 17	0	0%	0	0%	(6,984)	(85.4%)	
	Component Fugitive Leaks	Fugitive	N/A	0	NA	0	Number of leaks: 32	0	Number of leaks: 41	NA	NA	11	34.4%	NA	NA	
	Odors	Vented	2,436	2,436	NA	2,893	Number of units: 295	2,899	Number of units: 295	7	0.2%	0	0%	465	19.1%	Odorization emissions fluctuate depending on the level of odorant in the gas and the volume of gas flow.
Transmission M&R Stations	Station Leaks & Emissions	Fugitive	166,142	110,296	NA	114,818	Number of facilities: 564	114,818	Number of facilities: 562	(6,262)	(4.0%)	0	0%	(5,452)	(3.3%)	
	Blowdowns	Vented	95	95	NA	7,271	Number of blowdown events: 1,090	7,268	Number of blowdown events: 1,097	(11)	(0.1%)	7	0.2%	7,166	(9.4%)	Although the average pressurized operating emission factor was smaller during 2023 relative to 2022, the significant increase in pressurized operating hours year-over-year resulted in greater emissions during 2023 relative to 2022.
Transmission Compressor Stations	Compressor Emissions	Vented	34,810	34,810	NA	30,669	Number of compressors: 49	14,366	Number of compressors: 50	(3,667)	(10.5%)	NA	0%	(20,441)	(58.7%)	
	Compressor Leaks	Fugitive	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Blowdowns	Vented	7,268	7,268	NA	13,329	Number of blowdown events: 154	10,947	Number of blowdown events: 154	(1,561)	(13.2%)	100	23.1%	(3,681)	(50.6%)	The decrease in emissions year-over-year can be attributed to a decrease in the average blowdown volume between 2022 and 2023.
	Component Ventd Emissions	Vented	N/A	4,300	NA	1,922	Number of devices: 133	1,922	Number of devices: 133	0	0%	0	0%	(1,378)	(32.0%)	
	Component Fugitive Leaks	Fugitive														The increase in emissions year-over-year is driven by a longer average estimated leak duration during Emission Year 2023 relative to 2022. The average estimated leak duration in 2022 was 57 days, and the average duration in 2023 was 134 days. Although leak repair durations can vary based on a variety of factors, the current equation for estimating leak-days is also contributing to the increase in leak-days year-over-year. In the 2023 Emission Year data set, the current equation are estimating more than 305 leak-days for 50 leaks, whereas there aren't any in the Emission Year 2022 data set with more than 305 leak-days.
	Station Leaks & Emissions	Vented	8,491	13,650	13,793	8,443	Number of leaks: 548	8,658	Number of leaks: 552	4,509	108.7%	51	9.3%	(4,992)	(58.6%)	
Station Leak Leaks & Emissions	Vented	0	275	NA	105	Number of emission items: 5	105	Number of emission items: 5	0	0%	0	0%	105	(38.2%)		
Distribution Main & Service Pipelines	Pipeline Leaks	Fugitive													The year-over-year change in emissions is minimal after the updates to the Emission Year 2022 data were completed during August 2024. The updates corrected for leaks that were not reported as required in the initial Emission Year 2022 filing and were not reported as continuous or repaired in the Emission Year 2023 filing. Updates were also completed to more leaks to different Appendix sections based on additional details that were released since the Emission Year 2022 Report was initially filed. Because the Emission Year 2022 data have undergone these updates, there is not currently a true apples-to-apples comparison between Emission Years 2022 and 2023.	
	All Damages	Fugitive	78,016	78,016	NA	76,000	Number of damages: 3,088	56,097	Number of damages: 3,176	(13,005)	(16.7%)	1058	(13.1%)	(14,549)	(18.8%)	The decrease in emissions year-over-year can be attributed to SoCalGas's Damage Prevention Program.
	Blowdowns	Vented	4,828	4,828	NA	271	Number of blowdown events: 21,314	500	Number of blowdown events: 17,176	210	84.0%	18,137	(76.3%)	(4,327)	(89.6%)	The increase in emissions year-over-year can be attributed to larger average blowdowns during 2023 relative to 2022.
	Component Ventd Emissions	Vented	N/A	NA	NA	0	Number of emission items: 0	0	Number of emission items: 0	0	0%	0	0%	NA	NA	
	Component Fugitive Leaks	Fugitive	1,261	0	NA	0	Number of leaks: 0	0	Number of leaks: 0	0	0%	0	0%	NA	NA	
	Station Leaks & Emissions	Fugitive	100,739	0	NA	NA	Number of damages: 764	764	Number of damages: 866	166	16%	166	16%	NA	NA	
Distribution M&R Stations	All Damages	Fugitive	N/A	NA	NA	0	Number of damages: 0	0	Number of damages: 0	0	0%	0	0%	NA	NA	
	Blowdowns	Vented	94	94	NA	117	Number of blowdowns: 26,406	123	Number of blowdowns: 26,708	6	5.1%	100	8.4%	29	39.3%	Distribution M&R Blowdowns are a function of inspection activity level and can vary year-to-year. There were more operators and more blowdown events in 2023 relative to 2022.
	Component Emissions	Vented	N/A	390	NA	294	Number of emission items: 14	336	Number of emission items: 16	42	14.0%	2	14.3%	42	13.8%	Emissions increased year-over-year because 2 additional devices went installed.
	Component Leaks	Fugitive	N/A	8,898	NA	6,393	Number of leaks: 154	5,937	Number of leaks: 254	239	(3.7%)	(100)	(16.3%)	(3,205)	(36.2%)	The year-over-year reduction in emissions can be attributed to SoCalGas's continued efforts to reduce fugitive leaks at Distribution M&R Stations. For example, SoCalGas has increased the greasing and servicing of valves during inspections to reduce leakage.
	Meter Leaks	Fugitive	888,370	798,124	720,314	810,695	Number of Meters: 4,130,137 Number of leaks: 20,087	518,261	Number of Meters: 4,162,876 Number of leaks: 20,380	(70,569)	(8.6%)	(7,007)	(3.4%)	(107,805)	(12.4%)	The significant year-over-year increase in emissions is driven by the increase in leak counts. M&R inspection survey activities did not significantly increase year-over-year. Variations in leak counts can be attributed to operational or environmental conditions.
	All Damages	Fugitive	N/A	NA	NA	16,103	Number of damages: 1,245	17,872	Number of damages: 1,480	1,769	11.0%	204	16.4%	NA	NA	The increase in emissions year-over-year can be attributed to repairs in damages caused by Other Outside Forces and Natural Forces.
Customer Meters	Vented Emissions	Vented	2,063	2,063	NA	1,450	Number of blowdown events: 476,747	716	Number of blowdown events: 189,400	(759)	(18.6%)	(1,348)	(65.4%)	(1,467)	(71.1%)	The decrease in emissions year-over-year can be attributed to a decrease in <u>product activity</u> at customer sites.
	Storage Leaks & Emissions	Fugitive	1,116	1,116	NA	288	Number of leaks: 641	327	Number of leaks: 793	139	22.0%	157	24.3%	2,133	(191.2%)	Emissions from surface equipment increased year-over-year because the average number of days leaking increased from 5 to 7 days.
	Compressor Ventd Emissions	Vented	84,609	84,609	NA	4,306	Number of compressors: 47	4,669	Number of compressors: 47	363	11.0%	0	0%	(79,246)	(93.6%)	The increase in emissions can be attributed to an increase in pressurized operating hours coupled with a slight increase in the average pressurized operating made emission factor during 2023 relative to 2022.
	Blowdowns	Vented	10,812	10,812	NA	1,947	Number of blowdown events: 3,013	2,355	Number of blowdown events: 3,025	718	33.7%	222	6.1%	(8,647)	(80.0%)	The increase in emissions year-over-year can be attributed to an increase in emissions start-ups at Meter Repair during 2023 relative to 2022.
	Component Ventd Emissions	Vented	N/A	5,261	NA	2,363	Number of devices: 114	2,326	Number of devices: 110	(37)	(1.6%)	46	(13.1%)	(3,351)	(63.7%)	Emissions decreased year-over-year because devices were removed during 2022 and 2023.
	Compressor and Component Fugitive Leaks	Fugitive	107	10,474	10,474	9,231	Number of leaks: 154	21,366	Number of leaks: 1,130	(12,135)	(118.2%)	85	78.7%	(9,108)	(87.0%)	The year-over-year increases in leaks and emissions from surface equipment are driven by increased leak survey activities at the storage fields during 2023 relative to 2022.
Unsubstantiated Leaks	Delphidator Vent Emissions (Observation)	Fugitive	13,002	0	NA	0	Number of facilities: 4	0	Number of facilities: 4	NA	NA	0	0%	0	0%	
		Fugitive	1,030,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total			6,409,851	2,057,485	NA	1,245,680	NA	1,211,294	(38,557)	(0.6%)	(1)	0%	(266,115)	(4.1%)		

Legend:
 Using proposed values to estimate reductions relative to baseline per CPUC staff advice.
 Created on August 30, 2024

SoCalGas, July 1st, 2024

**Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated
Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371,
In Response to Data Request, R15-01-008, 2024 June Report
Appendix 8; Rev. 03/29/2024**

System Wide Leak Rate Data

1/1/2023 - 12/31/2023

The highlighted cells show the volumes that are summed together as the throughput for calculating the system wide leak rate.

Gas Storage Facilities:

Average Close of the Month Cushion Gas Storage Inventory (Mscf)	Average Close of the Month Working Gas Storage Inventory (Mscf)	Total Annual Volume of Injections into Storage (Mscf)	Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Withdrawals from Storage (Mscf)	Explanatory Notes / Comments
141,087,404	70,933,377	85,452,598	601,080	41,513,836	

Transmission System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Total Annual Volume of Gas Transported to utility-owned or third-party storage fields for injection into storage (Mscf)	Explanatory Notes / Comments
2,092,263	899,040,651	11,658,535	85,452,598	

Distribution System:

Total Annual Volume of Gas Used by the Gas Department (Mscf)	Total Annual Volume of Gas Transported to or for Customers* in State (Mscf)	Total Annual Volume of Gas Transported to or for Customers* out of State (Mscf)	Explanatory Notes / Comments
320,586	738,766,692	0	

*The term customers includes anyone that the utility is transporting gas for, including customers who purchase gas from the utility.

Customers can be anyone including residential, businesses, other utilities, gas transportation companies, etc.

SoCalGas, July 1st, 2024

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, In Response to Data Request, R15-01-008, 2024 June Report Appendix 8; Rev. 03/29/2024

Summary Tables:

Natural Gas Properties	Average Mole Percent	Explanatory Notes / Comments
Methane	94.4	Interstate supplies
Carbon Dioxide	0.75	Interstate supplies
Ethane	3.65	Interstate supplies
C3+	0.24	Interstate supplies
C6+	0.005	Interstate supplies
Oxygen	0.2	Estimated to limit, Not Tested at all locations
Hydrogen		Not Tested
Sulfur	0.0002	Estimated to include odorant
Water	0.0147	Estimated to Limit, Not Tested at all locations
Carbon Monoxide		Not Tested
Particulate Matter		Not Tested
Inert Gas	1.71	Interstate supplies
Odorant	0.00016	Estimated to guideline rate