

# **2024 CALIFORNIA GAS REPORT WORKPAPERS**

**REDACTED VERSION**



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## **HISTORICAL DATA**

# SOUTHERN CALIFORNIA GAS COMPANY

## ANNUAL GAS SUPPLY AND SENDOUT - MMCF/DAY RECORDED YEARS 2019 TO 2023

LINE		2019	2020	2021	2022	2023
<b>CAPACITY AVAILABLE</b>						
1	California Source Gas					
	Out-of-State Gas					
2	California Offshore -POPCO / PIOC					
3	El Paso Natural Gas Co.					
4	Transwestern Pipeline Co.					
5	Kern / Mojave					
6	PGT / PG&E					
7	Other					
8	Total Out-of-State Gas					
9	TOTAL CAPACITY AVAILABLE					
<b>GAS SUPPLY TAKEN</b>						
10	California Source Gas	97	87	86	91	86
	Out-of-State Gas					
11	Other Out-of-State	2,305	2,366	2,377	2,325	2,449
12	Total Out-of-State Gas	2,305	2,366	2,377	2,325	2,449
13	TOTAL SUPPLY TAKEN	2,402	2,453	2,463	2,416	2,535
14	Net Underground Storage Withdrawal	7	(19)	(20)	42	(107)
15	TOTAL THROUGHPUT (1)(2)	2,409	2,435	2,443	2,458	2,428
<b>DELIVERIES BY END-USE</b>						
16	Core Residential	645	635	621	583	621
17	Commercial	226	196	211	214	224
18	Industrial	61	53	55	54	53
19	NGV	41	37	40	46	50
20	Subtotal	973	920	927	897	948
21	Noncore Commercial	58	57	57	57	61
22	Industrial	357	369	376	362	363
23	EOR Steaming	51	51	34	29	26
24	Electric Generation	589	641	654	712	623
25	Subtotal	1,055	1,118	1,121	1,161	1,073
26	Wholesale/International	342	374	372	381	359
27	Co. Use & LUAF	39	23	23	20	48
28	SYSTEM TOTAL-THROUGHPUT (1)(2)	2,409	2,435	2,443	2,458	2,428
<b>TRANSPORTATION AND EXCHANGE</b>						
29	Core All End Uses	74	63	64	63	72
30	Noncore Commercial/Industrial	415	426	433	419	425
31	EOR Steaming	51	51	34	29	26
32	Electric Generation	589	641	654	712	623
33	Subtotal-Retail	1,129	1,181	1,185	1,223	1,145
34	Wholesale/International	342	374	372	381	359
35	TOTAL TRANSPORTATION & EXCHANGE	1,471	1,554	1,557	1,604	1,504
36	CURTAILMENT (3)					
37	REFUSAL					
38	Total BTU Factor (Dth/Mcf)	1.0336	1.0293	1.0322	1.0313	1.0317

### NOTES:

- (1) The wholesale volumes only reflect natural gas supplied by SoCalGas; and, do not include supplies from other sources. Refer to the supply source data provided in each utility's report for a complete accounting of their supply sources.
- (2) Deliveries by end-use includes sales, transportation, and exchange volumes and data includes effect of prior period adjustments.
- (3) The table does not explicitly show any curtailment numbers for the recorded years because, during some curtailment events, the estimate of the curtailed volume is not available. This table does not explicitly show any curtailment data for the recorded years, the noncore customer usage data implicitly captures the effects of any curtailment events.



**FORECAST OF REQUIREMENTS**  
**AVERAGE TEMPERATURE YEAR SUMMARY**

## SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED YEARS 2024 THRU 2028

## AVERAGE TEMPERATURE YEAR

LINE		2024	2025	2026	2027	2028	LINE
<b>CAPACITY AVAILABLE</b>							
1	California Line 85 Zone (California Producers)	60	60	60	60	60	1
2	California Coastal Zone (California Producers) Out-of-State Gas	150	150	150	150	150	2
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>							
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	8
9	Out-of-State	2,241	2,224	2,193	2,153	2,111	9
10	TOTAL SUPPLY TAKEN	2,307	2,290	2,259	2,219	2,177	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,307	2,290	2,259	2,219	2,177	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>							
13	CORE <sup>8/</sup> Residential	570	562	552	543	533	13
14	Commercial	206	203	197	194	190	14
15	Industrial	51	50	49	49	48	15
16	NGV	48	50	53	56	59	16
17	Subtotal-CORE	875	866	852	843	831	17
18	NONCORE Commercial	50	50	50	50	50	18
19	Industrial	375	374	371	370	369	19
20	EOR Steaming	24	24	23	22	22	20
21	Electric Generation (EG)	615	611	602	581	558	21
22	Subtotal-NONCORE	1,065	1,059	1,046	1,023	998	22
23	WHOLESALE & Core	200	201	199	199	199	23
24	INTERNATIONAL Noncore Excl. EG	27	27	27	27	27	24
25	Electric Generation (EG)	117	113	112	104	99	25
26	Subtotal-WHOLESALE & INTL.	344	341	338	330	325	26
27	Co. Use & LUAF	25	24	24	24	23	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,307	2,290	2,259	2,219	2,177	28
<b>TRANSPORTATION AND EXCHANGE</b>							
29	CORE All End Uses	70	72	73	74	75	29
30	NONCORE Commercial/Industrial	425	424	421	420	418	30
31	EOR Steaming	24	24	23	22	22	31
32	Electric Generation (EG)	615	611	602	581	558	32
33	Subtotal-RETAIL	1,135	1,130	1,118	1,097	1,073	33
34	WHOLESALE & INTERNATIONAL All End Uses	344	341	338	330	325	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,479	1,472	1,456	1,427	1,398	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>							
36	Core	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	38

## NOTES:

1/ Wheeler Ridge Zone: KR &amp; MP at Wheeler Ridge, PG&amp;E at Kern Stn., OEHI at Gosford)

2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand

3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision

4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.

5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.

6/ Excludes own-source gas supply of 1.1 1.0 0.9 0.8 0.7 gas procurement by the City of Long Beach

7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

8/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 829.9 819.1 803.8 793.1 779.7

## SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED YEARS 2029 THRU 2040

## AVERAGE TEMPERATURE YEAR

LINE		2029	2030	2031	2035	2040	LINE
<b>CAPACITY AVAILABLE</b>							
1	California Line 85 Zone (California Producers)	60	60	60	60	60	1
2	California Coastal Zone (California Producers) Out-of-State Gas	150	150	150	150	150	2
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>							
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	8
9	Out-of-State	2,093	2,041	2,000	1,961	1,989	9
10	TOTAL SUPPLY TAKEN	2,159	2,107	2,066	2,027	2,055	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,159	2,107	2,066	2,027	2,055	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>							
13	CORE <sup>8/</sup> Residential	530	525	522	509	514	13
14	Commercial	187	185	183	174	170	14
15	Industrial	48	47	47	46	44	15
16	NGV	62	65	68	76	81	16
17	Subtotal-CORE	828	823	820	804	809	17
18	NONCORE Commercial	50	50	50	50	50	18
19	Industrial	368	368	367	365	364	19
20	EOR Steaming	21	21	20	18	16	20
21	Electric Generation (EG)	545	503	474	454	473	21
22	Subtotal-NONCORE	985	941	911	887	902	22
23	WHOLESALE & Core	200	200	200	202	207	23
24	INTERNATIONAL Noncore Excl. EG	27	27	27	26	26	24
25	Electric Generation (EG)	97	94	86	86	90	25
26	Subtotal-WHOLESALE & INTL.	323	320	313	314	323	26
27	Co. Use & LUAF	23	22	22	22	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,159	2,107	2,066	2,027	2,055	28
<b>TRANSPORTATION AND EXCHANGE</b>							
29	CORE All End Uses	77	78	80	83	85	29
30	NONCORE Commercial/Industrial	418	417	417	415	414	30
31	EOR Steaming	21	21	20	18	16	31
32	Electric Generation (EG)	545	503	474	454	473	32
33	Subtotal-RETAIL	1,061	1,019	991	970	987	33
34	WHOLESALE & INTERNATIONAL All End Uses	323	320	313	314	323	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,385	1,340	1,304	1,284	1,310	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>							
36	Core	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	38

## NOTES:

1/ Wheeler Ridge Zone: KR &amp; MP at Wheeler Ridge, PG&amp;E at Kern Strn., OEHI at Gosford)

2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand

3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision

4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.

5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.

6/ Excludes own-source gas supply of 0.6 0.6 0.5 0.3 0.2 gas procurement by the City of Long Beach

7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

8/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 775.0 768.6 764.2 743.9 746.3

**FORECAST OF REQUIREMENTS**  
**AVERAGE TEMPERATURE YEAR DETAIL**

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2024

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,752	2,575	2,297	2,108	1,775	1,721	2,124	2,279	1,994	2,015	2,345	2,908	2,241	9
10	TOTAL SUPPLY TAKEN	2,818	2,641	2,363	2,174	1,841	1,787	2,190	2,345	2,060	2,081	2,411	2,974	2,307	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,818	2,641	2,363	2,174	1,841	1,787	2,190	2,345	2,060	2,081	2,411	2,974	2,307	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	949	883	718	595	422	339	316	315	321	382	641	969	570	13
15	Commercial	267	268	227	215	178	169	161	161	166	171	220	275	206	14
16	Industrial	54	56	53	53	47	48	45	45	49	51	54	52	51	15
17	NGV	40	41	45	47	45	49	49	51	52	51	51	50	48	16
17	Subtotal-CORE	1,310	1,247	1,043	909	693	605	570	572	589	655	966	1,346	875	17
18	NONCORE														
19	Commercial	58	56	54	49	45	42	39	41	54	49	51	59	50	18
20	Industrial	374	371	372	371	379	370	374	390	395	364	374	371	375	19
21	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	20
22	Electric Generation (EG)	593	475	482	481	421	461	854	936	677	678	619	689	615	21
22	Subtotal-NONCORE	1,049	926	933	925	869	897	1,292	1,391	1,150	1,116	1,068	1,143	1,065	22
23	WHOLESALE & INTERNATIONAL														
24	Core	284	286	256	217	165	150	139	137	142	145	209	273	200	23
25	Noncore Excl. EG	28	28	30	27	26	28	26	26	25	25	28	27	27	24
26	Electric Generation (EG)	116	125	76	73	68	87	140	194	132	119	115	153	117	25
26	Subtotal-WHOLESALE & INT	428	440	362	317	260	266	305	358	299	289	351	453	344	26
27	Co. Use & LUAF	30	28	25	23	20	19	23	25	22	22	26	32	25	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,818	2,641	2,363	2,174	1,841	1,787	2,190	2,345	2,060	2,081	2,411	2,974	2,307	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
30	All End Uses	77	78	73	72	64	65	63	64	65	66	74	83	70	29
31	NONCORE														
32	Commercial/Industrial	432	427	426	420	424	411	413	431	449	413	424	430	425	30
33	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	31
34	Electric Generation (EG)	593	475	482	481	421	461	854	936	677	678	619	689	615	32
35	Subtotal-RETAIL	1,126	1,004	1,006	997	933	961	1,355	1,455	1,215	1,181	1,142	1,226	1,135	33
34	WHOLESALE & INTERNATIONAL														
35	All End Uses	428	440	362	317	260	266	305	358	299	289	351	453	344	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,555	1,443	1,368	1,314	1,193	1,227	1,660	1,813	1,515	1,470	1,493	1,679	1,479	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,272 1,206 1,000 864 649 558 523 524 540 608 920 1,304 830

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2025

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
	Out-of-State Gas														
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,705	2,593	2,262	2,081	1,767	1,714	2,086	2,277	1,984	2,007	2,331	2,890	2,224	9
10	TOTAL SUPPLY TAKEN	2,771	2,659	2,328	2,147	1,833	1,780	2,152	2,343	2,050	2,073	2,397	2,956	2,290	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,771	2,659	2,328	2,147	1,833	1,780	2,152	2,343	2,050	2,073	2,397	2,956	2,290	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	932	898	705	585	416	334	311	310	317	376	630	952	562	13
14	Commercial	261	272	222	211	175	166	158	158	163	168	216	269	203	14
15	Industrial	54	57	52	52	47	48	44	44	49	51	54	51	50	15
16	NGV	42	45	48	50	48	52	51	54	55	54	54	53	50	16
17	Subtotal-CORE	1,289	1,272	1,028	897	685	600	565	567	583	648	953	1,325	866	17
<b>NONCORE</b>															
18	Commercial	59	59	54	49	45	42	39	41	54	49	51	59	50	18
19	Industrial	375	376	371	368	377	368	372	388	393	361	371	369	374	19
20	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	20
21	Electric Generation (EG)	569	466	465	471	420	465	844	939	674	681	624	696	611	21
22	Subtotal-NONCORE	1,027	924	914	912	865	898	1,280	1,392	1,144	1,114	1,069	1,147	1,059	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	284	296	256	217	166	151	139	138	143	145	209	272	201	23
24	Noncore Excl. EG	28	29	30	27	26	28	26	26	25	25	28	27	27	24
25	Electric Generation (EG)	114	110	76	71	72	84	119	195	132	118	113	153	113	25
26	Subtotal-WHOLESALE & INT	426	435	362	314	264	263	285	359	300	289	350	453	341	26
27	Co. Use & LUAF	29	28	25	23	19	19	23	25	22	22	25	31	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,771	2,659	2,328	2,147	1,833	1,780	2,152	2,343	2,050	2,073	2,397	2,956	2,290	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	78	81	74	73	65	66	64	65	67	67	75	84	72	29
<b>NONCORE</b>															
30	Commercial/Industrial	434	435	425	418	422	409	412	429	447	409	421	428	424	30
31	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	31
32	Electric Generation (EG)	569	466	465	471	420	465	844	939	674	681	624	696	611	32
33	Subtotal-RETAIL	1,104	1,006	988	985	930	964	1,344	1,457	1,211	1,181	1,145	1,231	1,130	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	426	435	362	314	264	263	285	359	300	289	350	453	341	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,530	1,441	1,350	1,300	1,194	1,227	1,629	1,816	1,511	1,470	1,494	1,683	1,472	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,250 1,228 984 850 639 551 516 517 533 600 905 1,281 819.1

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2026

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,672	2,553	2,235	2,053	1,746	1,696	2,060	2,221	1,967	1,993	2,304	2,829	2,193	9
10	TOTAL SUPPLY TAKEN	2,738	2,619	2,301	2,119	1,812	1,762	2,126	2,287	2,033	2,059	2,370	2,895	2,259	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,738	2,619	2,301	2,119	1,812	1,762	2,126	2,287	2,033	2,059	2,370	2,895	2,259	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	914	880	692	574	408	328	306	305	311	369	618	933	552	13
14	Commercial	254	264	216	205	170	162	154	154	159	164	210	261	197	14
15	Industrial	53	56	51	51	46	47	44	44	48	50	53	51	49	15
16	NGV	45	48	51	52	51	54	54	57	58	57	57	56	53	16
17	Subtotal-CORE	1,265	1,248	1,010	883	675	592	558	560	576	640	937	1,300	852	17
<b>NONCORE</b>															
18	Commercial	59	58	54	49	45	42	39	41	54	49	51	59	50	18
19	Industrial	371	370	366	364	372	364	369	385	391	359	369	367	371	19
20	EOR Steaming	23	23	23	23	23	23	23	23	23	23	23	23	23	20
21	Electric Generation (EG)	571	462	469	467	418	461	830	897	670	680	617	662	602	21
22	Subtotal-NONCORE	1,023	914	912	904	858	890	1,261	1,347	1,137	1,111	1,060	1,111	1,046	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	280	292	253	214	164	150	138	137	142	144	207	269	199	23
24	Noncore Excl. EG	28	29	30	27	26	28	26	26	25	25	27	27	27	24
25	Electric Generation (EG)	113	108	72	69	69	84	120	193	130	117	113	157	112	25
26	Subtotal-WHOLESALE & INT	421	429	355	310	260	262	284	357	297	287	347	453	338	26
27	Co. Use & LUAF	29	28	24	23	19	19	23	24	22	22	25	31	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,738	2,619	2,301	2,119	1,812	1,762	2,126	2,287	2,033	2,059	2,370	2,895	2,259	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	78	82	75	74	66	67	66	66	68	68	76	84	73	29
<b>NONCORE</b>															
30	Commercial/Industrial	429	429	419	413	417	406	409	426	445	408	420	426	421	30
31	EOR Steaming	23	23	23	23	23	23	23	23	23	23	23	23	23	31
32	Electric Generation (EG)	571	462	469	467	418	461	830	897	670	680	617	662	602	32
33	Subtotal-RETAIL	1,101	996	987	978	925	957	1,327	1,413	1,205	1,179	1,136	1,195	1,118	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	421	429	355	310	260	262	284	357	297	287	347	453	338	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,522	1,425	1,342	1,288	1,184	1,219	1,611	1,770	1,503	1,466	1,484	1,648	1,456	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,225 1,203 965 834 628 541 508 509 525 589 888 1,255 804

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2027

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,575	2,510	2,204	2,032	1,732	1,680	2,038	2,260	1,988	1,867	2,169	2,799	2,153	9
10	TOTAL SUPPLY TAKEN	2,641	2,576	2,270	2,098	1,798	1,746	2,104	2,326	2,054	1,933	2,235	2,865	2,219	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,641	2,576	2,270	2,098	1,798	1,746	2,104	2,326	2,054	1,933	2,235	2,865	2,219	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	899	866	681	565	403	324	302	301	307	364	608	917	543	13
14	Commercial	249	259	212	201	167	160	152	152	156	161	206	257	194	14
15	Industrial	52	56	51	51	46	47	43	43	47	50	52	50	49	15
16	NGV	47	50	54	55	54	58	57	61	62	60	60	59	56	16
17	Subtotal-CORE	1,248	1,231	998	873	669	588	555	557	573	635	927	1,283	843	17
<b>NONCORE</b>															
18	Commercial	59	58	54	49	45	42	39	41	54	49	51	59	50	18
19	Industrial	370	370	365	364	372	364	369	385	390	359	369	367	370	19
20	EOR Steaming	22	22	22	22	22	22	22	22	22	22	22	22	22	20
21	Electric Generation (EG)	508	451	451	456	408	451	827	957	690	572	509	669	581	21
22	Subtotal-NONCORE	959	902	892	892	848	879	1,258	1,406	1,157	1,002	951	1,118	1,023	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	280	292	253	215	165	151	139	138	143	145	207	268	199	23
24	Noncore Excl. EG	28	29	30	27	26	28	26	26	25	25	27	27	27	24
25	Electric Generation (EG)	98	94	72	69	71	82	104	175	134	106	99	138	104	25
26	Subtotal-WHOLESALE & INT	406	415	355	311	262	260	269	339	302	276	333	434	330	26
27	Co. Use & LUAF	28	27	24	22	19	19	22	25	22	21	24	30	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,641	2,576	2,270	2,098	1,798	1,746	2,104	2,326	2,054	1,933	2,235	2,865	2,219	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	79	83	76	75	68	69	67	68	70	70	78	85	74	29
<b>NONCORE</b>															
30	Commercial/Industrial	429	428	419	413	417	405	408	426	444	407	419	426	420	30
31	EOR Steaming	22	22	22	22	22	22	22	22	22	22	22	22	22	31
32	Electric Generation (EG)	508	451	451	456	408	451	827	957	690	572	509	669	581	32
33	Subtotal-RETAIL	1,038	985	968	967	916	948	1,326	1,474	1,226	1,072	1,028	1,203	1,097	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	406	415	355	311	262	260	269	339	302	276	333	434	330	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,444	1,400	1,324	1,277	1,177	1,208	1,595	1,813	1,528	1,348	1,362	1,637	1,427	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,206 1,185 951 823 620 535 503 504 519 583 876 1,236 793



SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2028

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
	Out-of-State Gas														
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,536	2,449	2,215	2,033	1,721	1,671	2,034	2,246	1,913	1,774	2,087	2,645	2,111	9
10	TOTAL SUPPLY TAKEN	2,602	2,515	2,281	2,099	1,787	1,737	2,100	2,312	1,979	1,840	2,153	2,711	2,177	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,602	2,515	2,281	2,099	1,787	1,737	2,100	2,312	1,979	1,840	2,153	2,711	2,177	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	884	822	670	557	397	320	298	297	303	359	599	902	533	13
14	Commercial	244	245	208	198	164	157	149	149	154	158	202	252	190	14
15	Industrial	52	53	50	50	45	46	43	43	47	49	52	49	48	15
16	NGV	50	51	57	58	57	61	61	64	65	63	64	62	59	16
17	Subtotal-CORE	1,230	1,172	985	863	663	583	551	553	569	629	916	1,265	831	17
<b>NONCORE</b>															
18	Commercial	59	56	54	49	45	42	39	41	54	49	51	59	50	18
19	Industrial	369	365	365	363	371	362	367	383	389	357	367	365	369	19
20	EOR Steaming	22	21	22	22	22	22	22	22	22	22	22	22	22	20
21	Electric Generation (EG)	490	472	479	472	407	451	832	951	648	493	444	540	558	21
22	Subtotal-NONCORE	940	915	920	906	845	877	1,261	1,397	1,112	920	884	986	998	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	279	282	253	215	165	151	140	138	144	146	207	268	199	23
24	Noncore Excl. EG	28	28	30	27	26	28	26	26	25	25	27	27	27	24
25	Electric Generation (EG)	98	92	69	65	69	80	100	172	109	101	96	137	99	25
26	Subtotal-WHOLESALE & INT	405	401	351	307	260	259	266	337	277	271	331	432	325	26
27	Co. Use & LUAF	28	27	24	22	19	18	22	25	21	20	23	29	23	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,602	2,515	2,281	2,099	1,787	1,737	2,100	2,312	1,979	1,840	2,153	2,711	2,177	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	80	81	77	77	69	71	69	70	71	71	79	86	75	29
<b>NONCORE</b>															
30	Commercial/Industrial	428	422	419	412	416	404	407	424	442	406	418	424	418	30
31	EOR Steaming	22	21	22	22	22	22	22	22	22	22	22	22	22	31
32	Electric Generation (EG)	490	472	479	472	407	451	832	951	648	493	444	540	558	32
33	Subtotal-RETAIL	1,019	996	997	983	914	947	1,330	1,467	1,183	991	963	1,072	1,073	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	405	401	351	307	260	259	266	337	277	271	331	432	325	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,424	1,397	1,349	1,290	1,174	1,206	1,596	1,804	1,461	1,263	1,293	1,504	1,398	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,187 1,126 936 811 612 529 497 498 514 576 864 1,216 780

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2029

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,523	2,508	2,201	2,031	1,716	1,663	1,988	2,216	1,880	1,735	2,051	2,616	2,093	9
10	TOTAL SUPPLY TAKEN	2,589	2,574	2,267	2,097	1,782	1,729	2,054	2,282	1,946	1,801	2,117	2,682	2,159	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,589	2,574	2,267	2,097	1,782	1,729	2,054	2,282	1,946	1,801	2,117	2,682	2,159	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	876	843	663	552	394	318	296	295	301	356	593	893	530	13
15	Commercial	240	250	205	195	162	155	147	147	152	156	199	247	187	14
16	Industrial	51	55	50	50	45	46	43	43	46	49	51	49	48	15
17	NGV	52	56	59	61	59	64	64	67	68	67	67	65	62	16
17	Subtotal-CORE	1,219	1,203	977	858	659	582	549	552	568	627	910	1,254	828	17
22	NONCORE														
22	Subtotal-NONCORE	938	928	918	912	843	871	1,229	1,367	1,078	892	866	964	985	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	404	415	348	305	261	258	255	340	279	262	319	435	323	26
27	Co. Use & LUAF	28	27	24	22	19	18	22	24	21	19	22	28	23	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,589	2,574	2,267	2,097	1,782	1,729	2,054	2,282	1,946	1,801	2,117	2,682	2,159	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	81	85	79	78	71	72	71	71	73	73	80	87	77	29
30	NONCORE														
30	All End Uses	938	928	918	912	843	871	1,229	1,367	1,078	892	866	964	985	30
33	Subtotal-RETAIL	1,019	1,013	996	990	914	943	1,299	1,438	1,151	965	946	1,052	1,061	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	404	415	348	305	261	258	255	340	279	262	319	435	323	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,424	1,429	1,344	1,295	1,174	1,201	1,554	1,778	1,431	1,227	1,265	1,487	1,385	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,174 1,154 927 804 607 526 494 495 510 572 856 1,203 775

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2030

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers) Out-of-State Gas	150	150	150	150	150	150	150	150	150	150	150	150	150	2
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,516	2,500	2,195	2,025	1,714	1,660	1,831	2,012	1,794	1,703	2,026	2,541	2,041	9
10	TOTAL SUPPLY TAKEN	2,582	2,566	2,261	2,091	1,780	1,726	1,897	2,078	1,860	1,769	2,092	2,607	2,107	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,582	2,566	2,261	2,091	1,780	1,726	1,897	2,078	1,860	1,769	2,092	2,607	2,107	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup> Residential	867	835	657	547	390	315	294	293	299	354	588	883	525	13
14	Commercial	236	246	202	192	160	153	145	145	150	154	196	244	185	14
15	Industrial	50	54	49	49	44	45	42	42	46	48	51	48	47	15
16	NGV	55	58	62	64	62	67	66	70	71	70	70	68	65	16
17	Subtotal-CORE	1,208	1,193	970	852	657	580	548	551	567	625	905	1,244	823	17
22	NONCORE Subtotal-NONCORE	940	928	918	912	844	869	1,072	1,186	994	866	841	919	941	22
26	WHOLESALE & INTERNATIONAL Subtotal-WHOLESALE & INT	406	417	349	305	260	259	256	319	280	259	323	417	320	26
27	Co. Use & LUAF	27	27	24	22	19	18	20	22	20	19	22	28	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,582	2,566	2,261	2,091	1,780	1,726	1,897	2,078	1,860	1,769	2,092	2,607	2,107	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE All End Uses	81	86	80	79	72	74	72	73	75	75	82	89	78	29
30	NONCORE All End Uses	940	928	918	912	844	869	1,072	1,186	994	866	841	919	941	30
33	Subtotal-RETAIL	1,021	1,014	997	991	916	943	1,145	1,259	1,068	941	923	1,007	1,019	33
34	WHOLESALE & INTERNATIONAL All End Uses	406	417	349	305	260	259	256	319	280	259	323	417	320	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,428	1,431	1,346	1,296	1,176	1,202	1,401	1,578	1,348	1,200	1,246	1,424	1,340	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,162 1,142 919 798 603 522 491 493 508 568 849 1,192 769

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2031

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,506	2,431	2,148	1,988	1,706	1,659	1,792	1,920	1,776	1,641	1,969	2,490	2,000	9
10	TOTAL SUPPLY TAKEN	2,572	2,497	2,214	2,054	1,772	1,725	1,858	1,986	1,842	1,707	2,035	2,556	2,066	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,572	2,497	2,214	2,054	1,772	1,725	1,858	1,986	1,842	1,707	2,035	2,556	2,066	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	860	828	652	543	388	314	293	292	298	352	584	876	522	13
15	Commercial	234	244	200	191	159	152	144	144	149	153	195	241	183	14
16	Industrial	50	54	49	49	44	45	42	42	46	48	50	48	47	15
17	NGV	57	61	65	67	65	69	69	73	74	72	73	71	68	16
17	Subtotal-CORE	1,201	1,186	966	849	655	580	548	551	567	625	902	1,236	820	17
22	NONCORE														
22	Subtotal-NONCORE	938	882	877	875	838	866	1,035	1,116	992	813	798	896	911	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	406	402	347	307	260	261	255	298	264	251	314	396	313	26
27	Co. Use & LUAF	27	27	24	22	19	18	20	21	20	18	22	27	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,572	2,497	2,214	2,054	1,772	1,725	1,858	1,986	1,842	1,707	2,035	2,556	2,066	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	83	87	81	81	74	75	74	75	76	76	83	90	80	29
30	NONCORE														
30	All End Uses	938	882	877	875	838	866	1,035	1,116	992	813	798	896	911	30
33	Subtotal-RETAIL	1,021	969	958	956	911	941	1,109	1,191	1,068	889	881	986	991	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	406	402	347	307	260	261	255	298	264	251	314	396	313	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,427	1,371	1,306	1,263	1,172	1,202	1,364	1,488	1,332	1,140	1,195	1,382	1,304	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,154 1,134 913 793 600 520 489 491 506 566 844 1,183 764

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2035

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,474	2,339	2,062	1,901	1,696	1,644	1,741	1,889	1,777	1,645	1,950	2,429	1,961	9
10	TOTAL SUPPLY TAKEN	2,540	2,405	2,128	1,967	1,762	1,710	1,807	1,955	1,843	1,711	2,016	2,495	2,027	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,540	2,405	2,128	1,967	1,762	1,710	1,807	1,955	1,843	1,711	2,016	2,495	2,027	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	834	804	634	530	380	309	288	287	293	345	569	850	509	13
15	Commercial	221	230	189	181	151	145	138	138	142	145	184	227	174	14
16	Industrial	48	52	47	47	43	43	41	41	44	46	49	46	46	15
17	NGV	64	68	73	75	72	78	78	82	84	81	82	80	76	16
17	Subtotal-CORE	1,167	1,153	943	833	646	575	544	547	563	618	883	1,203	804	17
22	NONCORE														
22	Subtotal-NONCORE	934	822	809	806	835	855	985	1,078	995	824	803	884	887	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	412	404	353	307	263	262	259	309	266	251	308	381	314	26
27	Co. Use & LUAF	27	26	23	21	19	18	19	21	20	18	21	27	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,540	2,405	2,128	1,967	1,762	1,710	1,807	1,955	1,843	1,711	2,016	2,495	2,027	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	85	90	84	85	78	80	79	79	81	81	87	93	83	29
30	NONCORE														
30	All End Uses	934	822	809	806	835	855	985	1,078	995	824	803	884	887	30
33	Subtotal-RETAIL	1,019	912	894	891	912	935	1,063	1,157	1,076	904	890	977	970	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	412	404	353	307	263	262	259	309	266	251	308	381	314	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,431	1,316	1,246	1,198	1,175	1,197	1,323	1,466	1,341	1,155	1,199	1,358	1,284	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.3 MMcf/d gas procurement by the City of Long Beach
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,116 1,097 886 772 586 510 480 483 497 554 821 1,145 744

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2040

AVERAGE TEMPERATURE with BASE HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers) Out-of-State Gas	150	150	150	150	150	150	150	150	150	150	150	150	150	2
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,509	2,305	2,085	1,928	1,715	1,667	1,780	1,952	1,822	1,669	1,979	2,463	1,989	9
10	TOTAL SUPPLY TAKEN	2,575	2,371	2,151	1,994	1,781	1,733	1,846	2,018	1,888	1,735	2,045	2,529	2,055	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,575	2,371	2,151	1,994	1,781	1,733	1,846	2,018	1,888	1,735	2,045	2,529	2,055	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	840	782	640	538	387	315	295	294	300	352	576	856	514	13
15	Commercial	215	217	185	177	148	143	136	136	140	143	181	222	170	14
16	Industrial	47	48	46	46	41	42	39	39	43	45	47	45	44	15
17	NGV	68	70	77	79	77	82	82	87	89	86	86	85	81	16
17	Subtotal-CORE	1,170	1,116	948	841	653	583	552	556	571	626	890	1,207	809	17
22	NONCORE														
22	Subtotal-NONCORE	953	827	823	817	844	863	1,005	1,114	1,019	831	818	902	902	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	426	403	357	315	266	269	269	327	277	260	315	392	323	26
27	Co. Use & LUAF	27	25	23	21	19	18	20	21	20	18	22	27	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,575	2,371	2,151	1,994	1,781	1,733	1,846	2,018	1,888	1,735	2,045	2,529	2,055	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	86	88	86	87	80	82	81	82	84	83	89	95	85	29
30	NONCORE														
30	All End Uses	953	827	823	817	844	863	1,005	1,114	1,019	831	818	902	902	30
33	Subtotal-RETAIL	1,039	915	910	904	924	946	1,086	1,196	1,103	914	907	997	987	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	426	403	357	315	266	269	269	327	277	260	315	392	323	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,465	1,317	1,266	1,219	1,189	1,215	1,355	1,523	1,380	1,174	1,222	1,389	1,310	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,117 1,061 889 778 591 516 486 489 503 560 826 1,148 746

**FORECAST OF REQUIREMENTS**  
**COLD TEMPERATURE YEAR SUMMARY**

## SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED YEARS 2024 THRU 2028

## COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) &amp; DRY HYDRO YEAR

LINE		2024	2025	2026	2027	2028	LINE
<b>CAPACITY AVAILABLE</b>							
1	California Line 85 Zone (California Producers)	60	60	60	60	60	1
2	California Coastal Zone (California Producers) Out-of-State Gas	150	150	150	150	150	2
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>							
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	8
9	Out-of-State	2,310	2,287	2,255	2,216	2,170	9
10	TOTAL SUPPLY TAKEN	2,376	2,353	2,321	2,282	2,236	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,376	2,353	2,321	2,282	2,236	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>							
13	CORE <sup>8/</sup> Residential	612	604	594	585	575	13
14	Commercial	215	211	205	202	198	14
15	Industrial	51	51	50	50	49	15
16	NGV	48	50	53	56	59	16
17	Subtotal-CORE	926	917	902	893	881	17
18	NONCORE Commercial	50	51	51	51	51	18
19	Industrial	375	374	371	370	369	19
20	EOR Steaming	24	24	23	22	22	20
21	Electric Generation (EG)	617	613	603	583	559	21
22	Subtotal-NONCORE	1,068	1,062	1,048	1,027	999	22
23	WHOLESALE & Core	210	207	205	205	205	23
24	INTERNATIONAL Noncore Excl. EG	28	27	27	27	27	24
25	Electric Generation (EG)	119	116	114	106	100	25
26	Subtotal-WHOLESALE & INTL.	357	350	346	338	332	26
27	Co. Use & LUAF	25	25	25	24	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,376	2,353	2,321	2,282	2,236	28
<b>TRANSPORTATION AND EXCHANGE</b>							
29	CORE All End Uses	72	73	74	75	77	29
30	NONCORE Commercial/Industrial	426	425	421	421	419	30
31	EOR Steaming	24	24	23	22	22	31
32	Electric Generation (EG)	617	613	603	583	559	32
33	Subtotal-RETAIL	1,139	1,135	1,122	1,102	1,076	33
34	WHOLESALE & INTERNATIONAL All End Uses	357	350	346	338	332	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,496	1,484	1,468	1,440	1,408	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>							
36	Core	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	38

## NOTES:

1/ Wheeler Ridge Zone: KR &amp; MP at Wheeler Ridge, PG&amp;E at Kern Stn., OEHI at Gosford)

2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local  
3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary  
that shown over the span of the CGR timeframe pending 2024 General Rate Case decision4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the  
CGR timeframe.

5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economic

6/ Excludes own-source gas supply of 1.1 1.0 0.9 0.8 0.7  
gas procurement by the City of Long Beach

7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

8/ Core end-use demand exclusive of core aggregation  
transportation (CAT) in MDth/d: 881 870 855 844 830



## SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED YEARS 2029 THRU 2040

## COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) &amp; DRY HYDRO YEAR

LINE		2029	2030	2031	2035	2040	LINE
<b>CAPACITY AVAILABLE</b>							
1	California Line 85 Zone (California Producers)	60	60	60	60	60	1
2	California Coastal Zone (California Producers) Out-of-State Gas	150	150	150	150	150	2
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>							
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	8
9	Out-of-State	2,152	2,101	2,059	2,017	2,044	9
10	TOTAL SUPPLY TAKEN	2,218	2,167	2,125	2,083	2,110	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,218	2,167	2,125	2,083	2,110	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>							
13	CORE <sup>8/</sup>						
14	Residential	571	567	563	549	553	13
15	Commercial	195	193	191	181	177	14
16	Industrial	49	48	48	46	45	15
17	NGV	62	65	68	76	81	16
17	Subtotal-CORE	878	873	869	852	855	17
18	NONCORE						
19	Commercial	51	51	51	51	51	18
20	Industrial	368	368	367	365	364	19
21	EOR Steaming	21	21	20	18	16	20
22	Electric Generation (EG)	546	504	475	454	473	21
22	Subtotal-NONCORE	986	943	913	888	903	22
23	WHOLESALE & INTERNATIONAL						
24	Core	206	206	206	208	212	23
25	Noncore Excl. EG	27	27	27	27	27	24
26	Electric Generation (EG)	98	95	87	87	90	25
26	Subtotal-WHOLESALE & INTL.	331	328	320	321	329	26
27	Co. Use & LUAF	24	23	23	22	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,218	2,167	2,125	2,083	2,110	28
<b>TRANSPORTATION AND EXCHANGE</b>							
29	CORE						
30	All End Uses	78	80	81	85	87	29
31	NONCORE						
32	Commercial/Industrial	419	418	418	416	414	30
33	EOR Steaming	21	21	20	18	16	31
34	Electric Generation (EG)	546	504	475	454	473	32
35	Subtotal-RETAIL	1,065	1,023	994	973	990	33
34	WHOLESALE & INTERNATIONAL						
35	All End Uses	331	328	320	321	329	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,395	1,350	1,314	1,294	1,319	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>							
36	Core	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	38

## NOTES:

1/ Wheeler Ridge Zone: KR &amp; MP at Wheeler Ridge, PG&amp;E at Kern Stn., OEHI at Gosford)

2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local

3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary that shown over the span of the CGR timeframe pending 2024 General Rate Case decision

4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.

5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economic

6/ Excludes own-source gas supply of 0.6 0.6 0.5 0.3 0.2  
gas procurement by the City of Long Beach

7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

8/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 825 818 814 792 793

**FORECAST OF REQUIREMENTS**  
**COLD TEMPERATURE YEAR DETAIL**

## SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2024

## COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) &amp; DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,910	2,717	2,407	2,178	1,812	1,737	2,133	2,284	2,006	2,034	2,423	3,073	2,310	9
10	TOTAL SUPPLY TAKEN	2,976	2,783	2,473	2,244	1,878	1,803	2,199	2,350	2,072	2,100	2,489	3,139	2,376	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,976	2,783	2,473	2,244	1,878	1,803	2,199	2,350	2,072	2,100	2,489	3,139	2,376	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	1,055	979	786	635	441	343	316	315	323	393	692	1,081	612	13
15	Commercial	288	287	240	223	182	170	161	161	166	173	230	297	215	14
16	Industrial	56	58	54	53	48	48	45	45	49	51	55	54	51	15
17	NGV	40	41	45	47	45	49	49	51	52	51	51	50	48	16
17	Subtotal-CORE	1,438	1,364	1,126	958	715	610	571	572	591	668	1,028	1,482	926	17
18	NONCORE														
19	Commercial	60	58	55	50	45	42	39	41	54	49	52	61	50	18
20	Industrial	374	371	372	371	379	370	374	390	395	364	374	371	375	19
21	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	20
22	Electric Generation (EG)	594	475	484	484	423	463	860	939	682	680	620	690	617	21
22	Subtotal-NONCORE	1,052	927	935	929	872	899	1,297	1,394	1,156	1,117	1,070	1,146	1,068	22
23	WHOLESALE & INTERNATIONAL														
24	Core	308	308	277	229	170	152	139	138	143	147	221	296	210	23
25	Noncore Excl. EG	29	29	31	27	27	28	26	27	25	25	28	28	28	24
26	Electric Generation (EG)	117	125	79	77	74	95	142	195	135	120	115	153	119	25
26	Subtotal-WHOLESALE & INT	454	462	386	333	271	274	307	359	303	292	364	477	357	26
27	Co. Use & LUAF	32	30	26	24	20	19	23	25	22	22	26	33	25	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,976	2,783	2,473	2,244	1,878	1,803	2,199	2,350	2,072	2,100	2,489	3,139	2,376	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
30	All End Uses	81	81	76	73	65	65	63	64	65	66	76	87	72	29
31	NONCORE														
32	Commercial/Industrial	434	429	427	421	424	411	413	431	449	413	425	432	426	30
33	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	31
34	Electric Generation (EG)	594	475	484	484	423	463	860	939	682	680	620	690	617	32
35	Subtotal-RETAIL	1,133	1,009	1,011	1,002	937	964	1,360	1,458	1,221	1,184	1,146	1,233	1,139	33
36	WHOLESALE & INTERNATIONAL														
37	All End Uses	454	462	386	333	271	274	307	359	303	292	364	477	357	34
38	TOTAL TRANSPORTATION & EXCHANGE	1,587	1,471	1,397	1,335	1,207	1,238	1,668	1,817	1,524	1,476	1,511	1,710	1,496	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

## NOTES:

1/ Wheeler Ridge Zone: KR &amp; MP at Wheeler Ridge, PG&amp;E at Kern Stn., OEHI at Gosford)

2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand

3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision

4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.

5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.

6/ Excludes own-source gas supply of 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1

gas procurement by the City of Long Beach

7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.

8/ Core end-use demand exclusive of core aggregation

transportation (CAT) in MDth/d: 1,400 1,323 1,083 913 671 563 524 525 542 621 982 1,439 881

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2025

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,858	2,726	2,344	2,135	1,801	1,725	2,090	2,280	1,992	2,029	2,417	3,063	2,287	9
10	TOTAL SUPPLY TAKEN	2,924	2,792	2,410	2,201	1,867	1,791	2,156	2,346	2,058	2,095	2,483	3,129	2,353	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,924	2,792	2,410	2,201	1,867	1,791	2,156	2,346	2,058	2,095	2,483	3,129	2,353	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	1,037	997	773	625	434	338	312	311	318	387	681	1,063	604	13
14	Commercial	282	291	236	219	178	167	158	158	163	170	226	291	211	14
15	Industrial	55	59	53	53	47	48	45	45	49	51	54	53	51	15
16	NGV	42	45	48	50	48	52	51	54	55	54	54	53	50	16
17	Subtotal-CORE	1,416	1,392	1,110	946	707	604	566	567	586	661	1,015	1,460	917	17
<b>NONCORE</b>															
18	Commercial	61	61	55	50	45	42	39	41	54	49	52	61	51	18
19	Industrial	375	376	371	368	377	368	372	388	393	361	371	369	374	19
20	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	20
21	Electric Generation (EG)	570	466	467	473	422	467	848	942	680	683	625	696	613	21
22	Subtotal-NONCORE	1,029	926	916	915	868	900	1,283	1,395	1,150	1,116	1,071	1,150	1,062	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	303	304	250	213	168	149	137	137	142	151	229	305	207	23
24	Noncore Excl. EG	29	30	30	27	26	28	26	26	25	25	28	28	27	24
25	Electric Generation (EG)	115	111	78	76	78	91	121	195	133	119	114	154	116	25
26	Subtotal-WHOLESALE & INT	447	444	358	316	272	267	284	359	300	295	371	487	350	26
27	Co. Use & LUAF	31	30	26	23	20	19	23	25	22	22	26	33	25	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,924	2,792	2,410	2,201	1,867	1,791	2,156	2,346	2,058	2,095	2,483	3,129	2,353	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	81	85	77	74	66	66	64	65	67	67	77	88	73	29
<b>NONCORE</b>															
30	Commercial/Industrial	436	437	426	418	422	409	412	429	447	410	423	430	425	30
31	EOR Steaming	24	24	24	24	24	24	24	24	24	24	24	24	24	31
32	Electric Generation (EG)	570	466	467	473	422	467	848	942	680	683	625	696	613	32
33	Subtotal-RETAIL	1,111	1,011	993	990	934	966	1,347	1,460	1,217	1,183	1,148	1,237	1,135	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	447	444	358	316	272	267	284	359	300	295	371	487	350	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,558	1,456	1,351	1,306	1,206	1,234	1,632	1,819	1,517	1,478	1,519	1,724	1,484	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,377 1,348 1,066 899 661 555 517 518 535 613 967 1,416 870

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2026

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,823	2,685	2,315	2,102	1,777	1,707	2,063	2,224	1,973	2,014	2,389	3,001	2,255	9
10	TOTAL SUPPLY TAKEN	2,889	2,751	2,381	2,168	1,843	1,773	2,129	2,290	2,039	2,080	2,455	3,067	2,321	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,889	2,751	2,381	2,168	1,843	1,773	2,129	2,290	2,039	2,080	2,455	3,067	2,321	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	1,018	979	759	614	426	332	307	306	313	380	669	1,043	594	13
14	Commercial	274	283	229	213	174	163	154	154	159	166	220	283	205	14
15	Industrial	54	58	53	52	46	47	44	44	48	50	54	52	50	15
16	NGV	45	48	51	52	51	54	54	57	58	57	57	56	53	16
17	Subtotal-CORE	1,391	1,367	1,092	931	697	597	559	561	579	653	999	1,434	902	17
<b>NONCORE</b>															
18	Commercial	61	60	55	50	45	42	39	41	54	49	52	61	51	18
19	Industrial	371	370	366	364	372	364	369	385	391	359	369	367	371	19
20	EOR Steaming	23	23	23	23	23	23	23	23	23	23	23	23	23	20
21	Electric Generation (EG)	571	462	470	468	420	463	832	900	673	681	619	662	603	21
22	Subtotal-NONCORE	1,026	916	914	905	860	892	1,264	1,349	1,141	1,112	1,062	1,114	1,048	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	300	301	247	211	167	148	136	136	142	150	227	301	205	23
24	Noncore Excl. EG	29	30	30	27	26	28	26	26	25	25	28	28	27	24
25	Electric Generation (EG)	113	108	73	71	73	89	121	194	131	118	113	157	114	25
26	Subtotal-WHOLESALE & INT	442	438	350	309	266	265	283	357	298	293	368	487	346	26
27	Co. Use & LUAF	31	29	25	23	20	19	23	24	22	22	26	33	25	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,889	2,751	2,381	2,168	1,843	1,773	2,129	2,290	2,039	2,080	2,455	3,067	2,321	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	82	85	77	75	67	67	66	66	68	69	78	88	74	29
<b>NONCORE</b>															
30	Commercial/Industrial	432	431	421	414	418	406	409	426	445	408	421	429	421	30
31	EOR Steaming	23	23	23	23	23	23	23	23	23	23	23	23	23	31
32	Electric Generation (EG)	571	462	470	468	420	463	832	900	673	681	619	662	603	32
33	Subtotal-RETAIL	1,107	1,001	991	981	927	960	1,330	1,415	1,209	1,181	1,140	1,202	1,122	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	442	438	350	309	266	265	283	357	298	293	368	487	346	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,549	1,439	1,341	1,289	1,193	1,225	1,613	1,772	1,507	1,474	1,508	1,688	1,468	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,351 1,323 1,046 883 650 546 509 510 527 603 950 1,389 855

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2027

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,725	2,641	2,284	2,083	1,766	1,692	2,044	2,265	1,997	1,890	2,255	2,970	2,216	9
10	TOTAL SUPPLY TAKEN	2,791	2,707	2,350	2,149	1,832	1,758	2,110	2,331	2,063	1,956	2,321	3,036	2,282	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,791	2,707	2,350	2,149	1,832	1,758	2,110	2,331	2,063	1,956	2,321	3,036	2,282	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	1,003	964	748	605	421	328	303	302	309	375	659	1,027	585	13
14	Commercial	269	278	225	209	171	160	152	152	157	163	216	278	202	14
15	Industrial	54	57	52	51	46	47	43	43	47	50	53	52	50	15
16	NGV	47	50	54	55	54	58	57	61	62	60	60	59	56	16
17	Subtotal-CORE	1,373	1,350	1,079	921	691	593	556	557	575	648	988	1,416	893	17
<b>NONCORE</b>															
18	Commercial	61	60	55	50	45	42	39	41	54	49	52	61	51	18
19	Industrial	370	370	365	364	372	364	369	385	390	359	369	367	370	19
20	EOR Steaming	22	22	22	22	22	22	22	22	22	22	22	22	22	20
21	Electric Generation (EG)	509	452	452	457	411	455	831	962	697	575	511	670	583	21
22	Subtotal-NONCORE	962	904	894	894	851	882	1,262	1,410	1,164	1,005	954	1,120	1,027	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	300	300	247	211	167	149	137	137	142	150	227	301	205	23
24	Noncore Excl. EG	29	30	30	27	26	28	26	26	25	25	28	28	27	24
25	Electric Generation (EG)	98	94	74	73	77	88	107	176	135	107	99	139	106	25
26	Subtotal-WHOLESALE & INT	426	424	352	311	271	264	270	339	302	282	354	468	338	26
27	Co. Use & LUAF	30	29	25	23	19	19	22	25	22	21	25	32	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,791	2,707	2,350	2,149	1,832	1,758	2,110	2,331	2,063	1,956	2,321	3,036	2,282	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	83	86	79	77	69	69	67	68	70	70	79	89	75	29
<b>NONCORE</b>															
30	Commercial/Industrial	431	430	420	414	418	405	408	426	444	408	420	428	421	30
31	EOR Steaming	22	22	22	22	22	22	22	22	22	22	22	22	22	31
32	Electric Generation (EG)	509	452	452	457	411	455	831	962	697	575	511	670	583	32
33	Subtotal-RETAIL	1,045	990	973	971	919	952	1,330	1,478	1,233	1,075	1,033	1,210	1,102	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	426	424	352	311	271	264	270	339	302	282	354	468	338	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,471	1,415	1,325	1,281	1,190	1,216	1,600	1,817	1,536	1,358	1,387	1,677	1,440	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,332 1,304 1,032 871 642 540 504 505 521 596 938 1,369 844

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2028

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,686	2,575	2,293	2,081	1,749	1,676	2,034	2,247	1,918	1,796	2,173	2,816	2,170	9
10	TOTAL SUPPLY TAKEN	2,752	2,641	2,359	2,147	1,815	1,742	2,100	2,313	1,984	1,862	2,239	2,882	2,236	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,752	2,641	2,359	2,147	1,815	1,742	2,100	2,313	1,984	1,862	2,239	2,882	2,236	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
<b>CORE <sup>8/</sup></b>															
13	Residential	987	917	737	596	415	324	299	298	305	370	649	1,011	575	13
14	Commercial	264	263	221	205	168	158	149	149	154	160	212	272	198	14
15	Industrial	53	55	51	51	45	46	43	43	47	49	53	51	49	15
16	NGV	50	51	57	58	57	61	61	64	65	63	64	62	59	16
17	Subtotal-CORE	1,354	1,286	1,066	911	684	588	552	554	571	643	977	1,397	881	17
<b>NONCORE</b>															
18	Commercial	61	58	55	50	45	42	39	41	54	49	52	61	51	18
19	Industrial	369	365	365	363	371	362	367	383	389	357	367	365	369	19
20	EOR Steaming	22	21	22	22	22	22	22	22	22	22	22	22	22	20
21	Electric Generation (EG)	491	472	480	473	408	452	834	952	649	494	445	540	559	21
22	Subtotal-NONCORE	942	917	922	908	847	878	1,262	1,398	1,114	922	886	988	999	22
<b>WHOLESALE &amp; INTERNATIONAL</b>															
23	Core	299	289	247	211	167	149	137	138	143	151	227	300	205	23
24	Noncore Excl. EG	29	28	30	27	26	28	26	26	25	25	28	28	27	24
25	Electric Generation (EG)	98	92	70	67	71	81	101	173	111	102	98	138	100	25
26	Subtotal-WHOLESALE & INT	426	410	347	305	264	258	264	337	278	278	352	466	332	26
27	Co. Use & LUAF	29	28	25	23	19	19	22	25	21	20	24	31	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,752	2,641	2,359	2,147	1,815	1,742	2,100	2,313	1,984	1,862	2,239	2,882	2,236	28
<b>TRANSPORTATION AND EXCHANGE</b>															
<b>CORE</b>															
29	All End Uses	83	84	80	78	70	71	69	70	71	72	81	90	77	29
<b>NONCORE</b>															
30	Commercial/Industrial	430	424	420	413	416	404	407	424	442	406	419	426	419	30
31	EOR Steaming	22	21	22	22	22	22	22	22	22	22	22	22	22	31
32	Electric Generation (EG)	491	472	480	473	408	452	834	952	649	494	445	540	559	32
33	Subtotal-RETAIL	1,025	1,001	1,001	986	917	949	1,331	1,468	1,185	994	966	1,079	1,076	33
<b>WHOLESALE &amp; INTERNATIONAL</b>															
34	All End Uses	426	410	347	305	264	258	264	337	278	278	352	466	332	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,451	1,411	1,348	1,291	1,181	1,206	1,595	1,805	1,463	1,271	1,319	1,545	1,408	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,311 1,240 1,017 859 634 534 498 499 516 589 925 1,348 830

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2029

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,672	2,638	2,279	2,078	1,744	1,667	1,990	2,218	1,884	1,756	2,136	2,785	2,152	9
10	TOTAL SUPPLY TAKEN	2,738	2,704	2,345	2,144	1,810	1,733	2,056	2,284	1,950	1,822	2,202	2,851	2,218	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,738	2,704	2,345	2,144	1,810	1,733	2,056	2,284	1,950	1,822	2,202	2,851	2,218	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup> Residential	978	940	730	591	411	321	297	296	303	367	643	1,001	571	13
14	Commercial	259	268	217	202	165	155	147	147	152	158	209	268	195	14
15	Industrial	53	56	51	50	45	46	43	43	47	49	52	51	49	15
16	NGV	52	56	59	61	59	64	64	67	68	67	67	65	62	16
17	Subtotal-CORE	1,342	1,320	1,058	905	681	586	550	552	570	640	971	1,385	878	17
22	NONCORE Subtotal-NONCORE	941	931	919	913	844	871	1,230	1,367	1,080	894	868	967	986	22
26	WHOLESALE & INTERNATIONAL Subtotal-WHOLESALE & INT	425	425	343	303	265	257	254	340	280	269	340	469	331	26
27	Co. Use & LUAF	29	29	25	23	19	18	22	24	21	19	23	30	24	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,738	2,704	2,345	2,144	1,810	1,733	2,056	2,284	1,950	1,822	2,202	2,851	2,218	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE All End Uses	84	88	81	79	71	72	71	71	73	73	82	91	78	29
30	NONCORE All End Uses	941	931	919	913	844	871	1,230	1,367	1,080	894	868	967	986	30
33	Subtotal-RETAIL	1,025	1,019	1,000	993	916	944	1,301	1,439	1,153	967	950	1,058	1,065	33
34	WHOLESALE & INTERNATIONAL All End Uses	425	425	343	303	265	257	254	340	280	269	340	469	331	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,450	1,444	1,343	1,296	1,181	1,201	1,555	1,778	1,433	1,236	1,290	1,527	1,395	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,298 1,271 1,008 852 629 530 495 496 512 585 917 1,335 825



SOUTHERN CALIFORNIA GAS COMPANY

Work Paper: TABLE 4-SCG

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2030

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,664	2,629	2,272	2,072	1,739	1,664	1,832	2,014	1,798	1,726	2,111	2,711	2,101	9
10	TOTAL SUPPLY TAKEN	2,730	2,695	2,338	2,138	1,805	1,730	1,898	2,080	1,864	1,792	2,177	2,777	2,167	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,730	2,695	2,338	2,138	1,805	1,730	1,898	2,080	1,864	1,792	2,177	2,777	2,167	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	969	931	723	586	408	319	295	294	301	364	638	992	567	13
15	Commercial	256	264	214	199	163	154	145	145	150	156	206	264	193	14
16	Industrial	52	56	50	50	45	45	42	42	46	48	52	50	48	15
17	NGV	55	58	62	64	62	67	66	70	71	70	70	68	65	16
17	Subtotal-CORE	1,331	1,310	1,050	899	678	585	549	551	569	638	965	1,374	873	17
22	NONCORE														
22	Subtotal-NONCORE	942	930	920	913	845	870	1,074	1,188	995	869	844	922	943	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	428	427	344	304	264	257	255	319	281	266	345	451	328	26
27	Co. Use & LUAF	29	29	25	23	19	18	20	22	20	19	23	29	23	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,730	2,695	2,338	2,138	1,805	1,730	1,898	2,080	1,864	1,792	2,177	2,777	2,167	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	85	89	82	81	73	74	72	73	75	75	84	92	80	29
30	NONCORE														
30	All End Uses	942	930	920	913	845	870	1,074	1,188	995	869	844	922	943	30
33	Subtotal-RETAIL	1,027	1,020	1,002	993	917	944	1,146	1,261	1,070	944	928	1,015	1,023	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	428	427	344	304	264	257	255	319	281	266	345	451	328	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,455	1,446	1,346	1,297	1,181	1,201	1,401	1,580	1,350	1,210	1,272	1,466	1,350	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,286 1,259 999 845 624 527 492 493 510 581 909 1,322 818

SOUTHERN CALIFORNIA GAS COMPANY

Work Paper: TABLE 4-SCG

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2031

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,654	2,559	2,224	2,033	1,732	1,662	1,791	1,921	1,782	1,662	2,054	2,658	2,059	9
10	TOTAL SUPPLY TAKEN	2,720	2,625	2,290	2,099	1,798	1,728	1,857	1,987	1,848	1,728	2,120	2,724	2,125	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,720	2,625	2,290	2,099	1,798	1,728	1,857	1,987	1,848	1,728	2,120	2,724	2,125	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	961	924	718	582	406	318	294	293	300	362	633	984	563	13
15	Commercial	253	262	212	198	162	152	145	144	149	155	204	261	191	14
16	Industrial	52	55	50	50	44	45	42	42	46	48	51	50	48	15
17	NGV	57	61	65	67	65	69	69	73	74	72	73	71	68	16
17	Subtotal-CORE	1,323	1,302	1,045	896	677	584	549	552	569	637	961	1,366	869	17
22	NONCORE														
22	Subtotal-NONCORE	941	884	879	876	839	866	1,036	1,117	995	815	801	899	913	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	427	411	342	304	263	259	253	297	265	258	336	430	320	26
27	Co. Use & LUAF	29	28	24	22	19	18	20	21	20	18	23	29	23	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,720	2,625	2,290	2,099	1,798	1,728	1,857	1,987	1,848	1,728	2,120	2,724	2,125	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	86	90	83	82	74	76	74	75	76	77	85	94	81	29
30	NONCORE														
30	All End Uses	941	884	879	876	839	866	1,036	1,117	995	815	801	899	913	30
33	Subtotal-RETAIL	1,027	975	962	958	913	942	1,110	1,192	1,071	892	886	993	994	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	427	411	342	304	263	259	253	297	265	258	336	430	320	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,454	1,386	1,304	1,263	1,176	1,201	1,363	1,489	1,336	1,149	1,221	1,423	1,314	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,276 1,250 992 840 621 525 490 492 508 579 904 1,313 814

SOUTHERN CALIFORNIA GAS COMPANY

Work Paper: TABLE 4-SCG

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2035

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,618	2,464	2,136	1,946	1,721	1,647	1,740	1,890	1,779	1,665	2,032	2,593	2,017	9
10	TOTAL SUPPLY TAKEN	2,684	2,530	2,202	2,012	1,787	1,713	1,806	1,956	1,845	1,731	2,098	2,659	2,083	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,684	2,530	2,202	2,012	1,787	1,713	1,806	1,956	1,845	1,731	2,098	2,659	2,083	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup> Residential	934	898	698	568	397	312	289	288	295	355	617	955	549	13
14	Commercial	239	247	201	187	154	145	138	138	142	147	193	246	181	14
15	Industrial	50	53	48	48	43	44	41	41	44	46	49	48	46	15
16	NGV	64	68	73	75	72	78	78	82	84	81	82	80	76	16
17	Subtotal-CORE	1,286	1,266	1,020	879	666	579	545	548	565	630	941	1,329	852	17
22	NONCORE Subtotal-NONCORE	937	824	811	807	836	856	985	1,079	996	825	805	886	888	22
26	WHOLESALE & INTERNATIONAL Subtotal-WHOLESALE & INT	433	413	347	305	265	260	257	308	265	257	329	416	321	26
27	Co. Use & LUAF	29	27	23	21	19	18	19	21	20	18	22	28	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,684	2,530	2,202	2,012	1,787	1,713	1,806	1,956	1,845	1,731	2,098	2,659	2,083	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE All End Uses	88	93	87	86	78	80	79	80	81	81	89	97	85	29
30	NONCORE All End Uses	937	824	811	807	836	856	985	1,079	996	825	805	886	888	30
33	Subtotal-RETAIL	1,025	917	898	893	914	936	1,064	1,159	1,077	906	894	983	973	33
34	WHOLESALE & INTERNATIONAL All End Uses	433	413	347	305	265	260	257	308	265	257	329	416	321	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,458	1,330	1,245	1,198	1,179	1,196	1,320	1,467	1,342	1,164	1,223	1,398	1,294	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Stn., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.3 MMcf/d by the City of Long Beach
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,236 1,210 963 818 607 515 481 483 499 567 880 1,272 792

SOUTHERN CALIFORNIA GAS COMPANY

ANNUAL GAS SUPPLY AND REQUIREMENTS - MMCF/DAY  
ESTIMATED FOR YEAR: 2040

COLD TEMPERATURE YEAR (1 IN 35 COLD YEAR EVENT) & DRY HYDRO YEAR

LINE		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	LINE
<b>CAPACITY AVAILABLE</b>															
1	California Line 85 Zone (California Producers)	60	60	60	60	60	60	60	60	60	60	60	60	60	1
2	California Coastal Zone (California Producers)	150	150	150	150	150	150	150	150	150	150	150	150	150	2
Out-of-State Gas															
3	Wheeler Ridge Zone (KR, MP, PG&E, OEHI) <sup>1/</sup>	765	765	765	765	765	765	765	765	765	765	765	765	765	3
4	Southern Zone (EPN,TGN,NBP) <sup>2/</sup>	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	1,210	4
5	Northern Zone (TW,EPN,QST, KR) <sup>3/</sup>	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	1,590	5
6	Total Out-of-State Gas	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	3,565	6
7	TOTAL CAPACITY AVAILABLE <sup>4/</sup>	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	3,775	7
<b>GAS SUPPLY TAKEN</b>															
8	California Source Gas <sup>5/</sup>	66	66	66	66	66	66	66	66	66	66	66	66	66	8
9	Out-of-State	2,648	2,421	2,156	1,970	1,739	1,670	1,778	1,952	1,824	1,688	2,058	2,624	2,044	9
10	TOTAL SUPPLY TAKEN	2,714	2,487	2,222	2,036	1,805	1,736	1,844	2,018	1,890	1,754	2,124	2,690	2,110	10
11	Net Underground Storage Withdrawal	0	0	0	0	0	0	0	0	0	0	0	0	0	11
12	TOTAL THROUGHPUT <sup>6/</sup>	2,714	2,487	2,222	2,036	1,805	1,736	1,844	2,018	1,890	1,754	2,124	2,690	2,110	12
<b>REQUIREMENTS FORECAST BY END-USE <sup>7/</sup></b>															
13	CORE <sup>8/</sup>														
14	Residential	937	870	703	576	404	319	296	295	301	362	623	959	553	13
15	Commercial	232	232	196	184	151	143	136	136	140	145	189	240	177	14
16	Industrial	48	50	47	46	41	42	39	39	43	45	48	46	45	15
17	NGV	68	70	77	79	77	82	82	87	89	86	86	85	81	16
17	Subtotal-CORE	1,285	1,222	1,023	885	673	587	553	556	573	638	946	1,330	855	17
22	NONCORE														
22	Subtotal-NONCORE	955	829	825	818	844	864	1,005	1,115	1,020	831	819	906	903	22
26	WHOLESALE & INTERNATIONAL														
26	Subtotal-WHOLESALE & INT	445	410	350	311	268	267	266	326	277	266	336	426	329	26
27	Co. Use & LUAF	29	26	24	22	19	18	20	21	20	19	23	29	22	27
28	SYSTEM TOTAL THROUGHPUT <sup>6/</sup>	2,714	2,487	2,222	2,036	1,805	1,736	1,844	2,018	1,890	1,754	2,124	2,690	2,110	28
<b>TRANSPORTATION AND EXCHANGE</b>															
29	CORE														
29	All End Uses	90	91	88	88	80	83	81	82	84	83	91	98	87	29
30	NONCORE														
30	All End Uses	955	829	825	818	844	864	1,005	1,115	1,020	831	819	906	903	30
33	Subtotal-RETAIL	1,045	920	914	906	925	946	1,086	1,197	1,104	915	910	1,004	990	33
34	WHOLESALE & INTERNATIONAL														
34	All End Uses	445	410	350	311	268	267	266	326	277	266	336	426	329	34
35	TOTAL TRANSPORTATION & EXCHANGE	1,490	1,330	1,264	1,218	1,193	1,213	1,353	1,523	1,381	1,181	1,246	1,430	1,319	35
<b>CURTAILMENT (RETAIL &amp; WHOLESALE)</b>															
36	Core	0	0	0	0	0	0	0	0	0	0	0	0	0	36
37	Noncore	0	0	0	0	0	0	0	0	0	0	0	0	0	37
38	TOTAL - Curtailment	0	0	0	0	0	0	0	0	0	0	0	0	0	38

NOTES:

- 1/ Wheeler Ridge Zone: KR & MP at Wheeler Ridge, PG&E at Kern Str., OEHI at Gosford)
- 2/ Southern Zone (EPN at Ehrenberg, TGN at Otay Mesa, NBP at Blythe); ability to receive 1,210 MMcf/d dependent on local area demand
- 3/ Northern Zone (TW at No. Needles, EPN at Topok, QST at No. Needles, KR at Kramer Jct.); projected capacity may vary from that shown over the span of the CGR timeframe pending 2024 General Rate Case decision
- 4/ Represents the outlook for firm receipt capacities at the time of publication; subject to change over the span of the CGR timeframe.
- 5/ Average 2023 recorded California Source Gas; production less than capacity due to reservoir performance and economics.
- 6/ Excludes own-source gas supply of 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2
- 7/ Requirement forecast by end-use includes sales, transportation, and exchange volumes.
- 8/ Core end-use demand exclusive of core aggregation transportation (CAT) in MDth/d: 1,233 1,167 964 822 611 520 487 489 505 572 883 1,270 793

## **CUSTOMER FORECAST**

## Recorded Data Through 2023

### *SoCalGas Connected Meter Forecast*

Year	Residential		Residential	Commercial	Industrial	NGV	Total
	Single-Family	Residential Multi-Family	Master Meter				
2021	3,844,078	1,924,441	39,312	249,422	24,764	346	6,082,363
2022	3,868,804	1,939,204	38,997	249,777	24,517	349	6,121,648
2023	3,893,945	1,957,761	38,685	250,074	24,271	353	6,165,089
2024	3,918,212	1,975,997	38,376	250,204	24,029	357	6,207,175
2025	3,941,953	1,993,658	38,069	250,333	23,788	361	6,248,162
2026	3,965,467	2,011,020	37,764	250,484	23,550	365	6,288,650
2027	3,988,538	2,028,381	37,462	250,614	23,315	369	6,328,679
2028	4,010,691	2,045,333	37,162	250,723	23,082	373	6,367,364
2029	4,032,221	2,061,869	36,865	250,821	22,851	377	6,405,004
2030	4,053,415	2,078,231	36,570	250,920	22,622	381	6,442,139
2031	4,074,176	2,094,516	36,278	251,010	22,396	385	6,478,761
2032	4,094,554	2,110,515	35,987	251,117	22,172	389	6,514,734
2033	4,114,828	2,126,270	35,700	251,233	21,951	393	6,550,375
2034	4,134,719	2,141,970	35,414	251,348	21,731	397	6,585,579
2035	4,154,223	2,157,455	35,131	251,458	21,514	401	6,620,182
2036	4,173,819	2,173,052	34,850	251,568	21,299	405	6,654,993
2037	4,193,507	2,188,762	34,572	251,678	21,086	409	6,690,014
2038	4,213,289	2,204,585	34,295	251,788	20,876	413	6,725,246
2039	4,233,163	2,220,523	34,021	251,898	20,667	417	6,760,690
2040	4,253,132	2,236,575	33,750	252,009	20,461	421	6,796,348

*SoCalGas Active Meter Forecast*

Year	Residential		Residential	Commercial	Industrial	NGV	Total
	Single-Family	Residential Multi-Family	Master Meter				
2021	3,790,736	1,839,450	38,610	188,690	15,674	346	5,873,506
2022	3,812,839	1,858,669	38,658	188,580	15,404	350	5,914,500
2023	3,836,679	1,871,756	38,604	188,829	15,090	355	5,951,313
2024	3,863,332	1,893,115	37,690	189,902	15,209	357	5,999,605
2025	3,886,741	1,910,035	37,389	190,000	15,057	361	6,039,583
2026	3,909,926	1,926,669	37,090	190,114	14,906	365	6,079,070
2027	3,932,674	1,943,301	36,793	190,213	14,757	369	6,118,107
2028	3,954,517	1,959,543	36,499	190,296	14,610	373	6,155,838
2029	3,975,745	1,975,386	36,207	190,370	14,463	377	6,192,548
2030	3,996,642	1,991,061	35,917	190,445	14,319	381	6,228,765
2031	4,017,113	2,006,663	35,630	190,514	14,176	385	6,264,481
2032	4,037,206	2,021,991	35,345	190,595	14,034	389	6,299,560
2033	4,057,195	2,037,085	35,062	190,683	13,894	393	6,334,312
2034	4,076,807	2,052,127	34,781	190,770	13,755	397	6,368,637
2035	4,096,039	2,066,962	34,503	190,854	13,617	401	6,402,376
2036	4,115,362	2,081,904	34,227	190,938	13,480	405	6,436,316
2037	4,134,776	2,096,955	33,954	191,022	13,345	409	6,470,460
2038	4,154,281	2,112,114	33,682	191,106	13,211	413	6,504,807
2039	4,173,879	2,127,382	33,413	191,190	13,079	417	6,539,360
2040	4,193,568	2,142,761	33,146	191,275	12,947	421	6,574,119

## **NAVIGATOR**





Navigator™ Energy and Emissions Simulation Suite

# Functional Specification Document

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Version: 1.0

Date: December 2022

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Posterity Group Consulting  
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## 2 Overview of the Navigator Model

### 2.1 Purpose and Application

Posterity Group's [Navigator™ Energy and Emissions Simulation Suite](#) enables complex, multi-variable modelling not possible with traditional approaches. It lets planners quickly explore the energy landscape, investigate an unlimited range of scenarios, optimize to targets, and resolve vexing strategic challenges. All backed by Posterity Group's expert energy and emissions consulting services. Navigator incorporates over 20 years of modelling expertise into a powerful platform for:

- Integrated resource planning
- Energy efficiency potential estimates
- Demand side management (DSM) program planning
- Decarbonization pathway analysis
- Policy impact analysis, and greenhouse gas (GHG) emissions studies

Navigator uses a “bottom up” approach to develop demand scenarios. It starts with granular information about how energy is used at the end-use level (e.g., how natural gas is used to heat a home) and builds on this data to describe how energy is used at the segment (e.g., detached homes), sector (e.g., residential), regional (e.g., Vancouver Island) and provincial or state level (e.g., British Columbia).

Detailed data from census and other government sources, utility customer data, end use surveys and research reports are compiled by a powerful processing engine to produce a comprehensive dataset for analysis. Every calculated value is stored and can be filtered and rolled-up for maximum flexibility of analysis and presentation.

Easy access to detailed, “high-resolution” datasets plus fast processing power, ensure the simulation is a powerful means of performing complex scenario analysis such as:

- Load scenarios under a variety of demand growth, pricing, regulatory and technology adoption assumptions
- Demand Side Management potential savings from efficiency and distributed resource measures
- Peak demand impact
- GHG emissions and reductions

As well, users can perform sophisticated optimization tasks such as:

- Fuel switching in response to price and policy signals
- Substitution of a system-wide fuel (such as renewables) in specified amounts
- Efficiency program spending within annual budgets

Navigator can be used to model consumption of energy and associated GHG emissions for any fuel type (e.g., fossil-based gas, electricity, renewables, etc.) for jurisdictions of any size from the community and small utility level to entire states or provinces. Please see [here](#) for case studies.



## 2.2 Navigator Components

Navigator has four key components:

1. **Configuration Layer:** this layer identifies all the parameters under study (e.g., the range of years in the scenario, the regions, sectors and scenarios, the energy end-uses, etc.). It also tells the simulation engine what to calculate (e.g., peak demand, GHG emissions, DSM potential, etc.).
2. **Data Input Layer:** the data input layer contains the unique information about the future evolution of the segments, sectors and regions under study. The data input layer drives the simulation engine in conjunction with the configuration layer.
3. **Simulation Engine:** the simulation engine is the model processing software that conducts the calculations specified by the user (e.g., annual energy consumption, peak demand, GHG emissions, DSM potential, etc.).
4. **Presentation Layer:** the presentation layer contains the simulation results (often referred to as “output”). Output files are assembled in Excel and data visualization platforms (e.g., PowerBI) to generate exhibits to visualize the raw output data and help users understand and use the results.

## 2.3 Sector-Based Models

Navigator models are sector-based to reflect the unique way energy is used and regulated. Typical sector models are residential, commercial, industrial, and transportation. Within each sector-model, the data (inputs and outputs) are divided up by rate class, region, segment (i.e., sub-sector), vintage, and end-use. The specifics of the sector-based models are custom made for each client. Exhibit 1 provides examples of regions, segments, end-uses, and vintages for sector-models.

**Exhibit 1 – Examples of Navigator sector-model structure**

	Residential	Commercial	Industrial	Transportation
<i>Regions</i>	<ul style="list-style-type: none"> <li>• South</li> <li>• North</li> <li>• East</li> <li>• West</li> </ul>	<ul style="list-style-type: none"> <li>• South</li> <li>• North</li> <li>• East</li> <li>• West</li> </ul>	<ul style="list-style-type: none"> <li>• South</li> <li>• North</li> <li>• East</li> <li>• West</li> </ul>	<ul style="list-style-type: none"> <li>• South</li> <li>• North</li> <li>• East</li> <li>• West</li> </ul>
<i>Segments</i>	<ul style="list-style-type: none"> <li>• Detached</li> <li>• Attached</li> <li>• Mobile</li> </ul>	<ul style="list-style-type: none"> <li>• Apartments</li> <li>• Food Retail</li> <li>• Hospital</li> <li>• Hotels</li> <li>• Non-Food Retail</li> <li>• Nursing Home</li> <li>• Offices</li> <li>• Restaurant</li> <li>• Schools</li> <li>• University/College</li> <li>• Warehouse</li> </ul>	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Chemical</li> <li>• District energy providers</li> <li>• Mining</li> <li>• Pulp &amp; Paper</li> <li>• Utilities</li> <li>• Wood Products</li> </ul>	<ul style="list-style-type: none"> <li>• Personal light duty vehicles</li> <li>• Fleet light duty vehicles</li> <li>• Medium duty vehicles</li> <li>• Heavy duty vehicles</li> <li>• Domestic short sea marine vessels</li> <li>• Coastal freight marine vessels</li> </ul>



	Residential	Commercial	Industrial	Transportation
<i>End Uses</i>	<ul style="list-style-type: none"> <li>• Clothes dryer</li> <li>• Cooking</li> <li>• Domestic hot water</li> <li>• Fireplace</li> <li>• Pool &amp; spa heaters</li> <li>• Space cooling</li> <li>• Space heating</li> <li>• Ventilation and circulation</li> </ul>	<ul style="list-style-type: none"> <li>• Cooking</li> <li>• Domestic Hot Water</li> <li>• Pools, Spas &amp; Hot tubs</li> <li>• Space Heating</li> </ul>	<ul style="list-style-type: none"> <li>• Direct-fired heating</li> <li>• Heat Treating</li> <li>• Kilns</li> <li>• On-Site Power Generation</li> <li>• Ovens</li> <li>• Process Boilers</li> <li>• Product Drying</li> <li>• Space Heating</li> <li>• Water Heating</li> </ul>	<ul style="list-style-type: none"> <li>• Trans-ocean marine vessels</li> <li>• Transportation</li> </ul>
<i>Vintages/Existence</i> <sup>1</sup>	<ul style="list-style-type: none"> <li>• Pre-1950</li> <li>• 1950-1985</li> <li>• 1986-2016</li> <li>• 2016 or newer</li> </ul>	<ul style="list-style-type: none"> <li>• Existing</li> <li>• New</li> </ul>	<ul style="list-style-type: none"> <li>• Existing</li> <li>• New</li> </ul>	<ul style="list-style-type: none"> <li>• Existing</li> <li>• New</li> </ul>

<sup>1</sup> The residential sector has Vintages to define time periods when residential dwellings are built. Existence Categories also apply to the residential vintages, as there is conversion of existing dwellings into new homes (i.e., renovations). ‘New’ residential dwellings do not appear until the first year of the reference case.



### 3 Model Structure

This section provides an overview of how models are structured and developed for use by Navigator.

#### 3.1 Model Parameters

Exhibit 2 defines the six parameters<sup>2</sup> that provide the basic structure for Navigator models. A model is populated with data or assumptions for each parameter.

**Exhibit 2 – Navigator Model Parameters**

Parameter	Definition
Accounts <sup>3</sup>	Number of energy-using accounts.
Units	The basis for how energy consumption is expressed. The unit of analysis is unique to each sector (e.g., dwellings in the residential sector, square metres or square feet in the commercial sector and production capacity in the industrial sector).
Size	The change in average number of units per account, relative to the first year the account appears.
Saturation	For most end uses, saturation is the extent to which an end-use is present in a region and segment. <sup>4</sup>
Fuel Share	The percentage of the energy end-use that is supplied by each fuel.
Unit Energy Consumption (UEC)	The amount of energy used by each end-use per unit.

Navigator calculates energy consumption at the sector, segment, existence category and end-use level using the following equation:

$$Consumption = Units \times Saturation \times Fuel Share \times UEC$$

Accounts and Size are used to scale Units, which appears in the consumption equation.

<sup>2</sup> Some of the model parameters are adjusted when necessary to reflect a distinct characteristic of a sector.

<sup>3</sup> Because Posterity Group often builds models for utility clients, 'Accounts' refers to customer accounts. For models that are built for non-utility clients, an Account represents the relevant energy-using item such as houses, vehicles, or floor area.

<sup>4</sup> A segment is a grouping or category of buildings (e.g., single-family detached in Residential, large offices in Commercial). Segments reflect the main purpose of the building and helps to differentiate between energy use intensity or patterns across building types within a sector.

### 3.2 Navigator Modules

Navigator has 'modules' to conduct specific sets of calculations depending on the analysis required. For any analysis, the Scenarios module is required because it provides the detailed breakdown of energy demand (and the basis for GHG emissions calculations) over the specified time horizon. Subsequent modules are used as required for each analysis. Each module contains functions that comprise the calculation arithmetic for processing the required inputs and producing the desired outputs. In addition to the components displayed in the diagram below (and explained by the subsequent sections of this document), Navigator also contains an aggregator function that allows users to output summarized results files whose file size is smaller than that of non-summarized results. The Energy Costs function can run and provide results independently from the Conservation Potential module, but this document presents the function under the Conservation Potential module because it is necessary for calculating the Conservation economic potential results.



## 5 Scenario Module

### 5.1 Overview

Navigator's Scenario module produces a detailed breakdown of jurisdictional energy demand over a specific time horizon. The granular output dataset contains the calculated energy demand values for each sector, region, fuel, rate class, end use, segment, and year. Each sector model begins with a base year that is calibrated to actual data (e.g., historical energy consumption or GHG emissions) then a scenario is generated for the specified time horizon using trends and assumptions about how each model parameter may change over time.

### 5.2 Input Files

The following input files are required for this module:

- Control, Sector Setup and Scenario
- Emit (optional)
- Fraction Solver (optional)
- Share Solver (optional)

### 5.3 Simulation Engine Processing Method & Calculations

#### 5.3.1 Process Control, Sector Set Up and Scenario Input Files

Navigator reads in the input files in the following order: Control, Sector Setup, and then the Scenario File for each sector and scenario. The Control file provides information on the identification number of the model run, the folder locations for input and output files, the names of the other input files that are included in the model run, and the configuration of the sectors, scenarios, and regions for the model run. The Sector Setup file provides the numbers of accounts, the number of units (e.g., commercial floor space or number of residential dwellings), a size variable if units per account change over time, saturation of end uses, fuel share, unit energy consumption, and end use efficiency.

Once all the input data is read in, the scenario module in Navigator calculates accounts, units, end use count, energy consumption, tertiary load, and unit tertiary load, and emissions (optional) for every fuel required in the output. The following sub-sections provide details of the calculation method for each element of the Scenario module processing.

#### 5.3.2 Calculate Accounts

First, the number of accounts for each year by region, rate class and segment are calculated. If the number of accounts increases, those present in the base year are be treated as existing accounts and the additional ones are be treated as new accounts.

#### 5.3.3 Calculate Units

Units are the basis of analysis for Navigator. Units can be dwellings, appliances, vehicles, floor area, etc., and can be customized to the sector model and specific analysis. The unit energy consumption values (UEC) are expressed in terms of energy consumption per unit.





The scenario input file includes values for units for each combination of region, segment, and rate class, in the first year that contains accounts for that combination.

The other key input variable for units is the SIZE. The size factor allows the modeler to change the average size, in units, of the accounts over time in a given region, segment and rate class. For example, if the average size of schools in a region is expected to increase, the size factor can be adjusted to reflect this change. The input file has a row of SIZE numbers for all the years for each region (and, optionally, rate class) and segment. The SIZE number for the first year in which accounts occur is the starting point for the size factor calculation. In many cases, that will be the base year, but in cases where accounts in a region (and rate class) and segment do not appear until later in the scenario period, the SIZE number in that year will be the starting point and the earlier ones will be ignored. Subsequent size factors are always relative to the SIZE number in the first year where there are accounts.

Navigator separates units into existing units and new units, so that different saturations, fuel shares, and UECs can be applied to each. Existing units and accounts are defined as units and accounts that exist in the base year.

#### 5.3.4 Calculate Energy Consumption

Finally, Navigator calculates end use count, energy consumption, tertiary load, and unit tertiary load which are defined by the following equations:

$$EndUseCount = Units * EndUseSaturation * FuelShare$$

Where: EndUseCount is the number of instances of this end use in this region, rate class, segment, existence category, and year

EndUseSaturation is a value read from the Scenario input file

FuelShare is a value read from the Scenario input file

$$Consumption = EndUseCount * UEC$$

Where: Consumption is the energy consumption of this end use in this region, rate class, segment, existence category, and year

EndUseCount is the number of instances of this end use in this region, rate class, segment, existence category, and year

UEC, or Unit Energy Consumption, is a value read from the Scenario input file

Calculate Tertiary, using the following equation:

$$Tertiary = Consumption * Efficiency$$

Where: Tertiary is the tertiary energy consumption, or useful energy supplied, for this end use in this region, rate class, segment, existence category, and year

Consumption is the energy consumption of this end use in this region, rate class, segment, existence category, and year

Efficiency is a value read from the Scenario input file

Calculate UnitTertiary, using the following equation:

$$UnitTertiary = Tertiary / EndUseSaturation$$

Where: UnitTertiary is the tertiary energy consumption for this end use in this region, rate class, segment, existence category, and year, if the end use saturation were 100% (exactly one instance of the end use per unit) and all of it were met by the current fuel.





Tertiary is the tertiary energy consumption, or useful energy supplied, for this end use in this region, rate class, segment, existence category, and year  
EndUseSaturation is a value read from the Scenario input file

### 5.3.5 Emissions Function

If the emissions feature is being used, Navigator calculates annual emissions by multiplying the emission factor for each fuel by the annual consumption for that fuel.

### 5.3.6 Fraction Solver Function - Fuel Share Calculations

The fraction solver function is used when consumption of an existing fuel needs to be partially replaced with a new fuel at a *specific amount* (e.g., PJs of RNG). The Fraction Solver function solves for the fraction of the existing fuel's fuel share that it needs to shift to the new fuel to hit the specific targets.

The fraction solver begins with fuel shares for the original fuel and calculates a total initial fuel share that is the sum of the original (or mother) fuel plus the initial fuel share of the new (or target) fuel for all applicable regions, segments, existence categories, end uses, and years. The fraction fuel share solver uses a simple binary search to find a factor for each bin and year that can be multiplied by the total mother fuel share values to reduce them. The amount of the reduction in all these fuel shares is given to the target fuel. When the consumption of the target fuel is equal to the target for a bin and year, that bin and year is solved. Simple binary solve is used because there tend to be a lot of step functions and nonlinearities in Navigator models, so more sophisticated solvers often will not converge.

The output of the Fraction Solver is a scenario input file, with the revised fuel shares. This 'new' scenario input file is processed by the simulation engine to produce output that meets the desired consumption amount for the specified fuels.

### 5.3.7 Share Solver Function - Fuel Share Calculations

The share solver function is designed to change the consumption of an existing fuel, to reach a target *percentage* change in the existing fuel by a target year (i.e., 5% blend of RNG). The target may be set based on an expected change due to a price signal or may be based on a policy objective.

The targets can be divided into different "bins" (for different regions or segments, for example). Navigator solves for the series of annual changes it needs to make to the existing fuel's share, to meet the change for each bin in the target year. The user can vary the relative amount of change in the intervening years by providing an array of responsiveness values – effectively an array of relative slopes.

Within a bin, the amount of change applied to a given end use and segment will vary depending on how "mobile" the fuel share is estimated to be for the end use in that specific segment. The assumption is that a fuel share that is close to 0% or 100% reflects a difficult end-use and segment to fuel switch, and the fuel share is therefore more difficult to change than for an end use with a starting fuel share near 50%.

The change in share for this fuel is taken from (or given to) the fuels that follow it in the sequence of fuel shares. In typical use, the fuel that is expected to absorb the change is placed at the end of the sequence of fuel share input rows and given a default share of 100%, so it will use whatever fuel share is left over after all the shares are specified for all the previous fuels.

An additional function the share solver can use to reach the target reduction in fuel use for a bin is to change the proportion of different new accounts being added to the population. The way this feature is typically used is when a given segment (vintage-size) is divided between those mainly heated by the



target fuel and those mainly heated by other fuels. The user specifies which segments are in matched pairs (for example, new gas-heated detached homes and new non-gas-heated detached homes), and the Navigator will modify the proportion of accounts it adds within the pair, to help meet the target reduction.

The Fuel Share Solver uses a simple binary search to find a factor for reducing the fuel share in each bin so that it reaches the target value in the target year. This factor becomes part of an equation for reducing the fuel share for the target fuel in each year, region, segment, and end use that is part of the bin. The reduction varies by year and by the starting value of the fuel share in each region, segment, and end use. In some cases, it is also used to change the percentage of newly constructed accounts that are heated primarily by the target fuel. When the consumption of the target fuel is equal to the objective in the target year, that bin is solved. If Navigator can't reach the target, for reasons such as limitations on how quickly equipment can be changed, the solving attempt for that bin stops. Simple binary solve is used because there tend to be a lot of step functions and nonlinearities in Navigator models, so more sophisticated solvers often will not converge.

In situations where the model will be adjusting the proportion of newly constructed accounts served by the target fuel, the fuel share solver is called twice. The first call solves the bins directly affected by the new construction adjustments – generally space heating – and leaves the other bins alone. Then the second call holds the new construction proportions constant and solves all the remaining bins. This is because if the proportion of new accounts is varying from one iteration to the next, the other bins generally cannot converge on a solution.

The output is a scenario input file, with the revised fuel shares for the existing fuel. This 'new' scenario input file is run through the simulation engine to produce output that reflects the revised fuel shares.

# **RESIDENTIAL**

## I. Residential End-Use Model Description

### Introduction:

SoCalGas used the Navigator model to generate annual gas demand forecasts for the residential market. The software's market segmentation description and end-use modeling framework are presented in the previous section of the SoCalGas workpapers.

The market segmentation groups for the residential sector are identified by the premise code classification found in the company billing files. The SoCalGas residential segmentation contains the following five types:

Single-Family (SF)

Multi-Family  $\leq 4$  units (MF2)

Multi-Family  $> 4$  units (MF3)

Master Metered (MM)

Sub-Metered (SM)

There are two vintages. These are "old" and "new". The classification termed old describes existing customers (established prior to the year 2021) whereas "new" describes the new meter hookups set up in year 2021 and beyond.

The residential model identifies eight end-uses that are the primary drivers of natural gas demand. These are:

space heating

water heating

cooking

clothes drying

barbecue

pool heating

spa heating

fireplace

other (miscellaneous)

A set of post-model adjustments were applied to the model's annual demand forecast. The first adjustment calibrates to the recorded 2023 weather-adjusted demand, or the "base" year demand. Next, the annual Navigator forecast was parceled out to a series of monthly forecasts by applying weights based on the customer's predicted monthly usage share in total annual consumption. The shares were applied to annual totals to derive the stream of monthly forecasts which are conditional on the particular weather design specification for the entire year. An adjustment to the forecast offsets the throughput by the energy efficiency (EE) savings. The forecast was also

reduced by the Additional Achievable Fuel Substitution (AAFS) Scenario 3 Programmatic Savings. The AAFS3 Programmatic was obtained from the California Energy Commission's "California Energy Demand Forecast", IEPR 2023.

The final adjustment applied to the forecast was for anticipated climate change. To account for anticipated weather that is "less cold" and more variable, the average year weather design was reduced by seven fewer heating degree days each year over the forecast period for SoCalGas.

Tables 1-4 in the following section illustrate the residential monthly forecast under each of the weather design scenarios. Table 5 shows the energy efficiency and fuel substitution forecast used to prepare the out of model adjustment and the final forecast.

#### Data Sources:

The data used to populate the Navigator model template and used to generate the unadjusted base forecast includes historical 2023 consumption and customer counts; price elasticities; historical meter counts (total and by vintage type), use per customer (total and by vintage type), saturation, fuel shares and unit energy consumption (UEC) values. The historical 2023 data is in Table 6. Tables 7-11 show accounts, units, saturations, fuel shares, and UEC's. Table 12 shows the nominal and inflation adjusted rates for this market.

Southern California Gas Company  
 Residential Market  
 Table RES-1 Average Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	30,671	26,708	23,316	19,288	13,938	10,742	10,315	10,292	10,175	12,690	20,326	32,211	220,672
2024	30,362	26,405	22,953	18,416	13,511	10,496	10,095	10,064	9,945	12,204	19,826	31,005	215,283
2025	29,816	25,931	22,550	18,103	13,292	10,337	9,946	9,916	9,797	12,012	19,485	30,435	211,619
2026	29,235	25,427	22,121	17,768	13,059	10,167	9,785	9,755	9,637	11,805	19,121	29,829	207,709
2027	28,766	25,020	21,776	17,502	12,875	10,035	9,661	9,631	9,514	11,644	18,831	29,339	204,595
2028	28,286	24,604	21,423	17,229	12,686	9,899	9,533	9,504	9,387	11,478	18,533	28,839	201,399
2029	28,004	24,360	21,220	17,081	12,587	9,832	9,471	9,442	9,325	11,393	18,367	28,546	199,628
2030	27,722	24,116	21,017	16,932	12,488	9,764	9,409	9,380	9,263	11,309	18,200	28,253	197,852
2031	27,494	23,919	20,856	16,817	12,413	9,716	9,364	9,336	9,219	11,246	18,069	28,017	196,467
2032	27,250	23,708	20,681	16,691	12,330	9,661	9,314	9,287	9,168	11,176	17,927	27,764	194,957
2033	27,031	23,519	20,526	16,582	12,259	9,614	9,272	9,245	9,126	11,117	17,801	27,538	193,631
2034	26,832	23,348	20,386	16,484	12,196	9,575	9,237	9,210	9,090	11,065	17,689	27,332	192,443
2035	26,678	23,215	20,280	16,414	12,153	9,551	9,216	9,189	9,069	11,032	17,606	27,173	191,575
2036	26,525	23,084	20,175	16,345	12,111	9,527	9,195	9,169	9,048	10,998	17,523	27,016	190,716
2037	26,392	22,969	20,084	16,288	12,077	9,509	9,181	9,154	9,033	10,973	17,454	26,880	189,996
2038	26,292	22,884	20,020	16,252	12,059	9,503	9,178	9,151	9,029	10,961	17,407	26,779	189,516
2039	26,636	23,185	20,291	16,494	12,241	9,652	9,323	9,296	9,172	11,133	17,653	27,143	192,218
2040	26,869	23,390	20,479	16,667	12,373	9,762	9,431	9,404	9,277	11,258	17,825	27,391	194,126

Southern California Gas Company  
 Residential Market  
 Table RES-2 Cold Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	33,961	29,527	25,463	20,615	14,547	10,867	10,341	10,314	10,233	13,082	21,921	35,861	236,733
2024	33,727	29,282	25,132	19,662	14,096	10,616	10,120	10,084	9,999	12,556	21,413	34,573	231,261
2025	33,164	28,793	24,717	19,342	13,875	10,457	9,971	9,935	9,851	12,362	21,064	33,984	227,515
2026	32,566	28,275	24,277	19,000	13,638	10,286	9,809	9,774	9,691	12,153	20,693	33,360	223,523
2027	32,080	27,854	23,921	18,729	13,452	10,153	9,685	9,650	9,567	11,990	20,394	32,853	220,329
2028	31,582	27,423	23,557	18,449	13,260	10,017	9,557	9,523	9,440	11,823	20,088	32,334	217,052
2029	31,284	27,165	23,344	18,295	13,158	9,949	9,495	9,461	9,378	11,736	19,914	32,023	215,201
2030	30,985	26,906	23,130	18,140	13,055	9,881	9,433	9,399	9,315	11,650	19,739	31,712	213,345
2031	30,740	26,695	22,958	18,019	12,978	9,832	9,388	9,355	9,271	11,586	19,600	31,459	211,880
2032	30,479	26,470	22,772	17,887	12,892	9,776	9,338	9,305	9,220	11,514	19,450	31,188	210,291
2033	30,244	26,267	22,607	17,771	12,818	9,729	9,296	9,263	9,178	11,453	19,317	30,944	208,887
2034	30,028	26,081	22,456	17,667	12,752	9,689	9,260	9,228	9,142	11,399	19,197	30,721	207,620
2035	29,858	25,934	22,339	17,591	12,706	9,664	9,239	9,207	9,120	11,364	19,106	30,545	206,675
2036	29,689	25,789	22,223	17,516	12,661	9,640	9,219	9,187	9,099	11,329	19,016	30,371	205,738
2037	29,539	25,661	22,122	17,453	12,625	9,622	9,204	9,173	9,084	11,302	18,939	30,217	204,940
2038	29,424	25,562	22,047	17,411	12,603	9,615	9,201	9,169	9,079	11,289	18,884	30,099	204,384
2039	29,751	25,849	22,308	17,648	12,783	9,763	9,346	9,314	9,221	11,459	19,122	30,446	207,010
2040	29,968	26,040	22,486	17,814	12,912	9,873	9,453	9,422	9,327	11,582	19,287	30,677	208,842

Southern California Gas Company  
 Residential Market  
 Table RES-3 Hot Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	27,381	23,890	21,169	17,961	13,330	10,617	10,288	10,269	10,117	12,298	18,731	28,561	204,612
2024	27,089	23,601	20,817	17,096	12,905	10,372	10,069	10,042	9,888	11,814	18,239	27,374	199,305
2025	26,559	23,141	20,424	16,789	12,690	10,214	9,920	9,893	9,740	11,624	17,906	26,822	195,722
2026	25,996	22,652	20,006	16,461	12,459	10,044	9,759	9,733	9,580	11,419	17,551	26,234	191,894
2027	25,543	22,259	19,672	16,202	12,279	9,913	9,635	9,609	9,457	11,260	17,269	25,764	188,861
2028	25,079	21,857	19,330	15,936	12,093	9,777	9,507	9,482	9,330	11,096	16,979	25,281	185,746
2029	24,814	21,627	19,138	15,794	11,997	9,711	9,445	9,420	9,269	11,013	16,820	25,007	184,056
2030	24,548	21,397	18,946	15,652	11,901	9,644	9,383	9,359	9,207	10,930	16,661	24,732	182,360
2031	24,337	21,214	18,795	15,543	11,829	9,596	9,339	9,315	9,163	10,870	16,538	24,514	181,053
2032	24,109	21,017	18,631	15,424	11,749	9,541	9,289	9,265	9,113	10,802	16,404	24,279	179,623
2033	23,906	20,842	18,487	15,321	11,680	9,496	9,247	9,224	9,071	10,744	16,286	24,071	178,376
2034	23,723	20,684	18,357	15,230	11,620	9,457	9,212	9,188	9,036	10,695	16,182	23,883	177,266
2035	23,585	20,565	18,261	15,167	11,581	9,433	9,191	9,168	9,015	10,663	16,106	23,742	176,476
2036	23,448	20,447	18,166	15,104	11,541	9,410	9,171	9,148	8,994	10,632	16,032	23,602	175,694
2037	23,331	20,347	18,086	15,053	11,511	9,393	9,156	9,134	8,979	10,608	15,970	23,483	175,051
2038	23,247	20,275	18,032	15,024	11,495	9,388	9,153	9,131	8,975	10,599	15,930	23,400	174,648
2039	23,606	20,589	18,314	15,272	11,680	9,537	9,298	9,276	9,118	10,772	16,184	23,781	177,426
2040	23,855	20,807	18,512	15,451	11,815	9,648	9,406	9,384	9,224	10,899	16,364	24,047	179,411



Southern California Gas Company  
 Residential Market  
 Table RES-4 Base Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	11,281	10,553	11,281	10,917	11,281	10,917	11,281	11,281	10,917	11,281	10,917	11,281	133,184
2024	10,979	10,271	10,979	10,625	10,979	10,625	10,979	10,979	10,625	10,979	10,625	10,979	129,621
2025	10,751	10,058	10,751	10,404	10,751	10,404	10,751	10,751	10,404	10,751	10,404	10,751	126,933
2026	10,502	9,825	10,502	10,163	10,502	10,163	10,502	10,502	10,163	10,502	10,163	10,502	123,995
2027	10,320	9,655	10,320	9,988	10,320	9,988	10,320	10,320	9,988	10,320	9,988	10,320	121,848
2028	10,131	9,478	10,131	9,804	10,131	9,804	10,131	10,131	9,804	10,131	9,804	10,131	119,613
2029	10,062	9,413	10,062	9,738	10,062	9,738	10,062	10,062	9,738	10,062	9,738	10,062	118,799
2030	9,992	9,348	9,992	9,670	9,992	9,670	9,992	9,992	9,670	9,992	9,670	9,992	117,975
2031	9,955	9,313	9,955	9,634	9,955	9,634	9,955	9,955	9,634	9,955	9,634	9,955	117,537
2032	9,907	9,268	9,907	9,588	9,907	9,588	9,907	9,907	9,588	9,907	9,588	9,907	116,969
2033	9,874	9,237	9,874	9,556	9,874	9,556	9,874	9,874	9,556	9,874	9,556	9,874	116,581
2034	9,853	9,217	9,853	9,535	9,853	9,535	9,853	9,853	9,535	9,853	9,535	9,853	116,326
2035	9,858	9,222	9,858	9,540	9,858	9,540	9,858	9,858	9,540	9,858	9,540	9,858	116,387
2036	9,863	9,227	9,863	9,545	9,863	9,545	9,863	9,863	9,545	9,863	9,545	9,863	116,451
2037	9,880	9,243	9,880	9,561	9,880	9,561	9,880	9,880	9,561	9,880	9,561	9,880	116,650
2038	9,917	9,277	9,917	9,597	9,917	9,597	9,917	9,917	9,597	9,917	9,597	9,917	117,085
2039	10,223	9,563	10,223	9,893	10,223	9,893	10,223	10,223	9,893	10,223	9,893	10,223	120,697
2040	10,461	9,786	10,461	10,124	10,461	10,124	10,461	10,461	10,124	10,461	10,124	10,461	123,511

Southern California Gas Company  
 Residential Market Out of Model Adjustments  
 Table RES-5 Energy Efficiency and Fuel Substitution (Mdth)

YEAR	Energy Efficiency	Fuel Substitution
2023	-	-
2024	3,016	1,716
2025	5,215	3,454
2026	6,911	4,752
2027	8,596	6,417
2028	10,183	8,197
2029	11,666	8,915
2030	13,109	9,562
2031	14,471	10,263
2032	15,804	10,980
2033	17,091	11,476
2034	18,332	11,909
2035	19,538	12,173
2036	20,744	12,284
2037	21,950	12,195
2038	23,156	11,936
2039	21,346	11,540
2040	20,354	11,107

Southern California Gas Company  
 Residential Market Out of Model Adjustments  
 Table RES-6 Base Year Inputs at Average Year (1,242 Annual Hdd) Weather Design (therms)

Segment	2023 Therm Sales	2023 Meter Count	2023 Meter Count old customers	2023 Meter Count New Customers	Average Annual Usage old customers	Average Annual Usage New Customers	Price Elasticity	Units Per Meter
SF	1,605,037,584	3,791,435	3,791,435	64,597	418	323.70	-0.05865	1
MF2	157,234,510	560,605	560,605	11,390	276	216.96	-0.04378	1
MF3	309,070,339	1,229,918	1,229,918	18,898	248	195.43	-0.03035	1
MM	100,104,220	36,063	36,063	389	2,675	9,312.11	-0.01933	18
SM	35,276,738	1,465	1,465	-	24,080	-	-0.05843	83
Total	2,206,723,392	5,619,486						

**Southern California Gas Company  
Residential Market  
Table RES-7 Meter Forecast**

Rate			2023	2024	2025	2026	2027	2028	2029	2030	2031
Region	Class	Segment ID									
SoCal	GR	SF_vint_old	3,791,435	3,792,994	3,794,554	3,796,113	3,797,673	3,799,232	3,800,791	3,802,351	3,803,910
SoCal	GR	SF_vint_NEW	64,597	84,811	105,025	125,239	145,453	165,667	185,881	206,095	226,309
SoCal	GR	MF2_vint_old	560,605	561,436	562,267	563,097	563,928	564,759	565,590	566,421	567,251
SoCal	GR	MF2_vint_NEW	11,390	14,088	16,787	19,485	22,184	24,882	27,580	30,279	32,977
SoCal	GR	MF3_vint_old	1,229,918	1,232,446	1,234,974	1,237,503	1,240,031	1,242,559	1,245,087	1,247,615	1,250,144
SoCal	GR	MF3_vint_NEW	18,898	21,596	27,594	33,591	39,588	45,585	51,582	57,580	63,577
SoCal	GM-E	MM_vint_old	36,063	35,944	35,825	35,706	35,587	35,468	35,349	35,230	35,111
SoCal	GM-E	MM_vint_NEW	389	503	616	730	843	957	1,071	1,184	1,298
SoCal	GM-E	SM_vint_old	1,465	1,413	1,361	1,309	1,257	1,205	1,153	1,101	1,049

Rate			2032	2033	2034	2035	2036	2037	2038	2039	2040
Region	Class	Segment ID									
SoCal	GR	SF_vint_old	3,805,470	3,807,029	3,808,588	3,810,148	3,811,707	3,813,267	3,814,826	3,816,385	3,817,945
SoCal	GR	SF_vint_NEW	246,523	266,737	286,951	307,165	327,379	347,593	367,807	388,021	408,235
SoCal	GR	MF2_vint_old	568,082	568,913	569,744	570,575	571,405	572,236	573,067	573,898	574,729
SoCal	GR	MF2_vint_NEW	35,676	38,374	41,072	43,771	46,469	49,168	51,866	54,564	57,263
SoCal	GR	MF3_vint_old	1,252,672	1,255,200	1,257,728	1,260,256	1,262,785	1,265,313	1,267,841	1,270,369	1,272,897
SoCal	GR	MF3_vint_NEW	69,574	75,571	81,568	87,566	93,563	99,560	105,557	111,554	117,552
SoCal	GM-E	MM_vint_old	34,992	34,873	34,754	34,635	34,516	34,397	34,278	34,159	34,040
SoCal	GM-E	MM_vint_NEW	1,411	1,525	1,639	1,752	1,866	1,979	2,093	2,207	2,320
SoCal	GM-E	SM_vint_old	997	945	893	841	789	737	685	633	581

**Southern California Gas Company**  
**Residential Market**  
**Table RES-8 UNITS, 2023**

Variable:	Region	Segment ID	GR	GM-E
UNITS	SoCal	SF_vint_old	3,791,435	-
UNITS	SoCal	SF_vint_NEW	64,597	-
UNITS	SoCal	MF2_vint_old	560,605	-
UNITS	SoCal	MF2_vint_NEW	11,390	-
UNITS	SoCal	MF3_vint_old	1,229,918	-
UNITS	SoCal	MF3_vint_NEW	18,898	-
UNITS	SoCal	MM_vint_old	0	655,815
UNITS	SoCal	MM_vint_NEW	0	7,074
UNITS	SoCal	SM_vint_old	0	121,439

**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	Ex	SF_vint_old	Barbecue	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
SATURATION	SoCal	Ex	SF_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_old	Drying	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	Ex	SF_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	Ex	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_old	Pool	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SATURATION	SoCal	Ex	SF_vint_old	Spa	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	Ex	SF_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	Barbecue	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SATURATION	SoCal	Ex	SF_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	Drying	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex	SF_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	Ex	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	Pool	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
SATURATION	SoCal	Ex	SF_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	Ex	SF_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	Ex	MF2_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	Ex	MF2_vint_old	Fireplace	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
SATURATION	SoCal	Ex	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_vint_old	Spa	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
SATURATION	SoCal	Ex	MF2_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_NEW	Barbecue	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
SATURATION	SoCal	Ex	MF2_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_NEW	Drying	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	MF2_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	Ex	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	Ex	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	Ex	MF2_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	Ex	MF3_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SATURATION	SoCal	Ex	MF3_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	Ex	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_vint_old	Spa	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
SATURATION	SoCal	Ex	MF3_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Barbecue	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	Ex	MF3_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	Ex	MF3_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	Ex	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	Ex	MF3_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	MM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	Ex	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	Ex	MM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	SM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	Ex	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	SM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	Barbecue	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
SATURATION	SoCal	New	SF_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	Drying	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	New	SF_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	New	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	Pool	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23



**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	New	SF_vint_old	Spa	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	New	SF_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	Barbecue	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SATURATION	SoCal	New	SF_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	Drying	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	SF_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	New	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	Pool	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
SATURATION	SoCal	New	SF_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	New	SF_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	New	MF2_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	New	MF2_vint_old	Fireplace	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
SATURATION	SoCal	New	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_vint_old	Spa	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
SATURATION	SoCal	New	MF2_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	Barbecue	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
SATURATION	SoCal	New	MF2_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	Drying	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	MF2_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	New	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	New	MF2_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_old	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	New	MF3_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	New	MF3_vint_old	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SATURATION	SoCal	New	MF3_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	New	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_vint_old	Spa	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
SATURATION	SoCal	New	MF3_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	Barbecue	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	New	MF3_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	New	MF3_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	New	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	New	MF3_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	MM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	New	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	MM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**Residential**  
**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	New	MM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	SM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	New	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	SM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	Ex	MF2_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	Ex	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	Ex	MF3_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SATURATION	SoCal	Ex	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	New	MF2_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	New	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	New	MF3_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SATURATION	SoCal	New	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	SF_vint_old	Barbecue	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
SATURATION	SoCal	Ex	SF_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_old	Drying	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	Ex	SF_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	Ex	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_old	Pool	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SATURATION	SoCal	Ex	SF_vint_old	Spa	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	Ex	SF_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	Barbecue	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SATURATION	SoCal	Ex	SF_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	Drying	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex	SF_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	Ex	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	Pool	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
SATURATION	SoCal	Ex	SF_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	Ex	SF_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SF_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	Ex	MF2_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	Ex	MF2_vint_old	Fireplace	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
SATURATION	SoCal	Ex	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_vint_old	Spa	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
SATURATION	SoCal	Ex	MF2_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_NEW	Barbecue	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
SATURATION	SoCal	Ex	MF2_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_NEW	Drying	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	MF2_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	Ex	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	Ex	MF2_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	Ex	MF3_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SATURATION	SoCal	Ex	MF3_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	Ex	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_vint_old	Spa	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
SATURATION	SoCal	Ex	MF3_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Barbecue	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	Ex	MF3_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	Ex	MF3_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	Ex	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	Ex	MF3_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	MM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	Ex	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	MM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	SM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	Ex	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	SM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	SM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	SM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	Barbecue	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
SATURATION	SoCal	New	SF_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	Drying	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	New	SF_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	New	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	Pool	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	SF_vint_old	Spa	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	New	SF_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	Barbecue	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SATURATION	SoCal	New	SF_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	Drying	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	SF_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	New	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	Pool	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
SATURATION	SoCal	New	SF_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	New	SF_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SF_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	New	MF2_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	New	MF2_vint_old	Fireplace	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
SATURATION	SoCal	New	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_vint_old	Spa	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
SATURATION	SoCal	New	MF2_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	Barbecue	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
SATURATION	SoCal	New	MF2_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	Drying	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	MF2_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	New	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	New	MF2_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_old	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	New	MF3_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



**Southern California Gas Company**

**Residential**

**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	MF3_vint_old	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SATURATION	SoCal	New	MF3_vint_old	Fireplace	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	New	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_vint_old	Spa	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
SATURATION	SoCal	New	MF3_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	Barbecue	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
SATURATION	SoCal	New	MF3_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	New	MF3_vint_NEW	Fireplace	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
SATURATION	SoCal	New	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_vint_NEW	Spa	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SATURATION	SoCal	New	MF3_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	MM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	New	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	MM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**Residential**  
**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	MM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	Barbecue	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	SM_vint_old	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	Drying	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
SATURATION	SoCal	New	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_old	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_old	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	Barbecue	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	SM_vint_NEW	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	SM_vint_NEW	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	SM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	Ex	MF2_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	Ex	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF2_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF2_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	Ex	MF3_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40

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**Table RES-9 SATURATIONS**

Variable	Region	Existing/New	Segment ID	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	MF3_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	MF3_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	Barbecue	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
SATURATION	SoCal	New	MF2_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	Drying	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SATURATION	SoCal	New	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF2_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF2_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	Barbecue	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SATURATION	SoCal	New	MF3_Common	Cooking	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	Drying	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
SATURATION	SoCal	New	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	MF3_Common	SH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	MF3_Common	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	Ex	SF_vint_old	Barbecue	0.31	0.31	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27
Share	NG	Ex	SF_vint_old	Cooking	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.77	0.77
Share	NG	Ex	SF_vint_old	Drying	0.80	0.80	0.79	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.78
Share	NG	Ex	SF_vint_old	Fireplace	0.44	0.45	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48
Share	NG	Ex	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	SF_vint_old	Pool	0.44	0.45	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.56
Share	NG	Ex	SF_vint_old	Spa	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Share	NG	Ex	SF_vint_old	SH	0.98	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96
Share	NG	Ex	SF_vint_old	WH	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.96
Share	NG	Ex	SF_vint_NEW	Barbecue	0.45	0.46	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Share	NG	Ex	SF_vint_NEW	Cooking	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Share	NG	Ex	SF_vint_NEW	Drying	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	SF_vint_NEW	Fireplace	0.70	0.73	0.75	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79
Share	NG	Ex	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	SF_vint_NEW	Pool	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.57
Share	NG	Ex	SF_vint_NEW	Spa	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Share	NG	Ex	SF_vint_NEW	SH	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Share	NG	Ex	SF_vint_NEW	WH	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95
Share	NG	Ex	MF2_vint_old	Barbecue	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24
Share	NG	Ex	MF2_vint_old	Cooking	0.71	0.71	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73
Share	NG	Ex	MF2_vint_old	Drying	0.69	0.69	0.69	0.70	0.70	0.70	0.70	0.70	0.70	0.71	0.71
Share	NG	Ex	MF2_vint_old	Fireplace	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Share	NG	Ex	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_vint_old	Spa	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Share	NG	Ex	MF2_vint_old	SH	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	MF2_vint_old	WH	0.86	0.86	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.91
Share	NG	Ex	MF2_vint_NEW	Barbecue	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35
Share	NG	Ex	MF2_vint_NEW	Cooking	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Share	NG	Ex	MF2_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	MF2_vint_NEW	Fireplace	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Share	NG	Ex	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_vint_NEW	Spa	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Share	NG	Ex	MF2_vint_NEW	SH	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	Ex	MF2_vint_NEW	WH	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Share	NG	Ex	MF3_vint_old	Barbecue	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24
Share	NG	Ex	MF3_vint_old	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.84
Share	NG	Ex	MF3_vint_old	Drying	0.47	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.56	0.57
Share	NG	Ex	MF3_vint_old	Fireplace	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37
Share	NG	Ex	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_vint_old	Spa	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Share	NG	Ex	MF3_vint_old	SH	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85
Share	NG	Ex	MF3_vint_old	WH	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.89	0.90
Share	NG	Ex	MF3_vint_NEW	Barbecue	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Share	NG	Ex	MF3_vint_NEW	Cooking	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Share	NG	Ex	MF3_vint_NEW	Drying	0.51	0.52	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.54
Share	NG	Ex	MF3_vint_NEW	Fireplace	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Share	NG	Ex	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_vint_NEW	Spa	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Share	NG	Ex	MF3_vint_NEW	SH	0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Share	NG	Ex	MF3_vint_NEW	WH	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.78
Share	NG	Ex	MM_vint_old	Barbecue	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.43	0.40
Share	NG	Ex	MM_vint_old	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84
Share	NG	Ex	MM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	SH	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94
Share	NG	Ex	MM_vint_old	WH	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04
Share	NG	Ex	MM_vint_NEW	Barbecue	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Cooking	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61
Share	NG	Ex	MM_vint_NEW	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.61
Share	NG	Ex	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	Ex	MM_vint_NEW	SH	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Share	NG	Ex	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	SM_vint_old	Barbecue	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.43	0.40
Share	NG	Ex	SM_vint_old	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84
Share	NG	Ex	SM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	SH	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94
Share	NG	Ex	SM_vint_old	WH	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95
Share	NG	Ex	SM_vint_NEW	Barbecue	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.43	0.40
Share	NG	Ex	SM_vint_NEW	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84
Share	NG	Ex	SM_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	SH	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94
Share	NG	Ex	SM_vint_NEW	WH	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95
Share	NG	New	SF_vint_old	Barbecue	0.31	0.31	0.30	0.30	0.29	0.29	0.29	0.28	0.28	0.28	0.27
Share	NG	New	SF_vint_old	Cooking	0.80	0.80	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.77	0.77
Share	NG	New	SF_vint_old	Drying	0.80	0.80	0.79	0.79	0.79	0.79	0.79	0.78	0.78	0.78	0.78
Share	NG	New	SF_vint_old	Fireplace	0.44	0.45	0.45	0.45	0.46	0.46	0.47	0.47	0.47	0.48	0.48
Share	NG	New	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	SF_vint_old	Pool	0.44	0.45	0.47	0.48	0.50	0.51	0.52	0.53	0.54	0.55	0.56
Share	NG	New	SF_vint_old	Spa	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Share	NG	New	SF_vint_old	SH	0.98	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96
Share	NG	New	SF_vint_old	WH	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.96
Share	NG	New	SF_vint_NEW	Barbecue	0.45	0.46	0.47	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Share	NG	New	SF_vint_NEW	Cooking	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Share	NG	New	SF_vint_NEW	Drying	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	SF_vint_NEW	Fireplace	0.70	0.73	0.75	0.76	0.77	0.77	0.78	0.78	0.78	0.79	0.79
Share	NG	New	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	SF_vint_NEW	Pool	0.53	0.54	0.55	0.55	0.55	0.56	0.56	0.56	0.56	0.56	0.57

**Southern California Gas Company**

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	New	SF_vint_NEW	Spa	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Share	NG	New	SF_vint_NEW	SH	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Share	NG	New	SF_vint_NEW	WH	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95
Share	NG	New	MF2_vint_old	Barbecue	0.27	0.27	0.26	0.26	0.25	0.25	0.25	0.24	0.24	0.24	0.24
Share	NG	New	MF2_vint_old	Cooking	0.71	0.71	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73
Share	NG	New	MF2_vint_old	Drying	0.69	0.69	0.69	0.70	0.70	0.70	0.70	0.70	0.70	0.71	0.71
Share	NG	New	MF2_vint_old	Fireplace	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Share	NG	New	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_vint_old	Spa	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Share	NG	New	MF2_vint_old	SH	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	MF2_vint_old	WH	0.86	0.86	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.91	0.91
Share	NG	New	MF2_vint_NEW	Barbecue	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.35	0.35
Share	NG	New	MF2_vint_NEW	Cooking	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Share	NG	New	MF2_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	MF2_vint_NEW	Fireplace	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Share	NG	New	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_vint_NEW	Spa	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Share	NG	New	MF2_vint_NEW	SH	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	New	MF2_vint_NEW	WH	0.89	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Share	NG	New	MF3_vint_old	Barbecue	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.25	0.24
Share	NG	New	MF3_vint_old	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.84
Share	NG	New	MF3_vint_old	Drying	0.47	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.56	0.57
Share	NG	New	MF3_vint_old	Fireplace	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37
Share	NG	New	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_vint_old	Spa	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Share	NG	New	MF3_vint_old	SH	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.85	0.85	0.85	0.85
Share	NG	New	MF3_vint_old	WH	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.89	0.90
Share	NG	New	MF3_vint_NEW	Barbecue	0.35	0.35	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34
Share	NG	New	MF3_vint_NEW	Cooking	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Share	NG	New	MF3_vint_NEW	Drying	0.51	0.52	0.53	0.53	0.53	0.53	0.54	0.54	0.54	0.54	0.54
Share	NG	New	MF3_vint_NEW	Fireplace	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Share	NG	New	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	New	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_vint_NEW	Spa	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Share	NG	New	MF3_vint_NEW	SH	0.82	0.82	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Share	NG	New	MF3_vint_NEW	WH	0.78	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.78	0.78
Share	NG	New	MM_vint_old	Barbecue	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.43	0.40
Share	NG	New	MM_vint_old	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84
Share	NG	New	MM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	SH	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94
Share	NG	New	MM_vint_old	WH	1.03	1.03	1.03	1.03	1.03	1.04	1.04	1.04	1.04	1.04	1.04
Share	NG	New	MM_vint_NEW	Barbecue	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Cooking	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.61	0.61
Share	NG	New	MM_vint_NEW	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.61
Share	NG	New	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	SH	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Share	NG	New	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	SM_vint_old	Barbecue	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.43	0.40
Share	NG	New	SM_vint_old	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84
Share	NG	New	SM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	SH	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94
Share	NG	New	SM_vint_old	WH	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95
Share	NG	New	SM_vint_NEW	Barbecue	0.78	0.73	0.68	0.64	0.60	0.56	0.52	0.49	0.46	0.43	0.40
Share	NG	New	SM_vint_NEW	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.84	0.84	0.84
Share	NG	New	SM_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	New	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_NEW	SH	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94
Share	NG	New	SM_vint_NEW	WH	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95
Share	NG	Ex	MF2_Common	Barbecue	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Share	NG	Ex	MF2_Common	Cooking	0.72	0.72	0.73	0.74	0.74	0.74	0.75	0.75	0.76	0.76	0.76
Share	NG	Ex	MF2_Common	Drying	0.69	0.69	0.70	0.70	0.70	0.70	0.70	0.71	0.71	0.71	0.71
Share	NG	Ex	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_Common	SH	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	MF2_Common	WH	0.86	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.90	0.91
Share	NG	Ex	MF3_Common	Barbecue	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.26	0.25
Share	NG	Ex	MF3_Common	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Share	NG	Ex	MF3_Common	Drying	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.57
Share	NG	Ex	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_Common	SH	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	MF3_Common	WH	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.87	0.88	0.89	0.89
Share	NG	New	MF2_Common	Barbecue	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Share	NG	New	MF2_Common	Cooking	0.72	0.72	0.73	0.74	0.74	0.74	0.75	0.75	0.76	0.76	0.76
Share	NG	New	MF2_Common	Drying	0.69	0.69	0.70	0.70	0.70	0.70	0.70	0.71	0.71	0.71	0.71
Share	NG	New	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_Common	SH	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	MF2_Common	WH	0.86	0.87	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.90	0.91
Share	NG	New	MF3_Common	Barbecue	0.35	0.33	0.32	0.31	0.30	0.29	0.28	0.27	0.26	0.26	0.25
Share	NG	New	MF3_Common	Cooking	0.82	0.82	0.82	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Share	NG	New	MF3_Common	Drying	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.55	0.56	0.57

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Share	NG	New	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_Common	SH	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	MF3_Common	WH	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.87	0.88	0.89	0.89

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	Ex	SF_vint_old	Barbecue	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Share	NG	Ex	SF_vint_old	Cooking	0.77	0.77	0.77	0.77	0.77	0.77	0.77
Share	NG	Ex	SF_vint_old	Drying	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Share	NG	Ex	SF_vint_old	Fireplace	0.48	0.49	0.49	0.49	0.49	0.49	0.49
Share	NG	Ex	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	SF_vint_old	Pool	0.57	0.58	0.58	0.58	0.58	0.58	0.58
Share	NG	Ex	SF_vint_old	Spa	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Share	NG	Ex	SF_vint_old	SH	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Share	NG	Ex	SF_vint_old	WH	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Share	NG	Ex	SF_vint_NEW	Barbecue	0.48	0.47	0.47	0.47	0.47	0.47	0.47
Share	NG	Ex	SF_vint_NEW	Cooking	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Share	NG	Ex	SF_vint_NEW	Drying	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	SF_vint_NEW	Fireplace	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Share	NG	Ex	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	SF_vint_NEW	Pool	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Share	NG	Ex	SF_vint_NEW	Spa	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Share	NG	Ex	SF_vint_NEW	SH	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Share	NG	Ex	SF_vint_NEW	WH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	Ex	MF2_vint_old	Barbecue	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Share	NG	Ex	MF2_vint_old	Cooking	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Share	NG	Ex	MF2_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	MF2_vint_old	Fireplace	0.49	0.49	0.49	0.49	0.49	0.49	0.54
Share	NG	Ex	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_vint_old	Spa	0.06	0.06	0.06	0.06	0.06	0.06	0.07
Share	NG	Ex	MF2_vint_old	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	MF2_vint_old	WH	0.91	0.92	0.92	0.92	0.92	0.92	0.92
Share	NG	Ex	MF2_vint_NEW	Barbecue	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	Ex	MF2_vint_NEW	Cooking	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Share	NG	Ex	MF2_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	MF2_vint_NEW	Fireplace	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Share	NG	Ex	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_vint_NEW	Spa	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Share	NG	Ex	MF2_vint_NEW	SH	0.95	0.95	0.95	0.95	0.95	0.95	0.95

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	Ex	MF2_vint_NEW	WH	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Share	NG	Ex	MF3_vint_old	Barbecue	0.24	0.23	0.23	0.23	0.23	0.23	0.23
Share	NG	Ex	MF3_vint_old	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	MF3_vint_old	Drying	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Share	NG	Ex	MF3_vint_old	Fireplace	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Share	NG	Ex	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_vint_old	Spa	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Share	NG	Ex	MF3_vint_old	SH	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Share	NG	Ex	MF3_vint_old	WH	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Share	NG	Ex	MF3_vint_NEW	Barbecue	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Share	NG	Ex	MF3_vint_NEW	Cooking	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Share	NG	Ex	MF3_vint_NEW	Drying	0.54	0.55	0.55	0.55	0.55	0.55	0.55
Share	NG	Ex	MF3_vint_NEW	Fireplace	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Share	NG	Ex	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_vint_NEW	Spa	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Share	NG	Ex	MF3_vint_NEW	SH	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Share	NG	Ex	MF3_vint_NEW	WH	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Share	NG	Ex	MM_vint_old	Barbecue	0.38	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	Ex	MM_vint_old	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	MM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_old	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	MM_vint_old	WH	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Share	NG	Ex	MM_vint_NEW	Barbecue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Cooking	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Share	NG	Ex	MM_vint_NEW	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Share	NG	Ex	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	Ex	MM_vint_NEW	SH	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Share	NG	Ex	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	SM_vint_old	Barbecue	0.38	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	Ex	SM_vint_old	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	SM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_old	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	SM_vint_old	WH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	Ex	SM_vint_NEW	Barbecue	0.38	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	Ex	SM_vint_NEW	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	SM_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	SM_vint_NEW	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	SM_vint_NEW	WH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	New	SF_vint_old	Barbecue	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Share	NG	New	SF_vint_old	Cooking	0.77	0.77	0.77	0.77	0.77	0.77	0.77
Share	NG	New	SF_vint_old	Drying	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Share	NG	New	SF_vint_old	Fireplace	0.48	0.49	0.49	0.49	0.49	0.49	0.49
Share	NG	New	SF_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	SF_vint_old	Pool	0.57	0.58	0.58	0.58	0.58	0.58	0.58
Share	NG	New	SF_vint_old	Spa	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Share	NG	New	SF_vint_old	SH	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Share	NG	New	SF_vint_old	WH	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Share	NG	New	SF_vint_NEW	Barbecue	0.48	0.47	0.47	0.47	0.47	0.47	0.47
Share	NG	New	SF_vint_NEW	Cooking	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Share	NG	New	SF_vint_NEW	Drying	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	SF_vint_NEW	Fireplace	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Share	NG	New	SF_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	SF_vint_NEW	Pool	0.57	0.57	0.57	0.57	0.57	0.57	0.57

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	New	SF_vint_NEW	Spa	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Share	NG	New	SF_vint_NEW	SH	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Share	NG	New	SF_vint_NEW	WH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	New	MF2_vint_old	Barbecue	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Share	NG	New	MF2_vint_old	Cooking	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Share	NG	New	MF2_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	MF2_vint_old	Fireplace	0.49	0.49	0.49	0.49	0.49	0.49	0.54
Share	NG	New	MF2_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_vint_old	Spa	0.06	0.06	0.06	0.06	0.06	0.06	0.07
Share	NG	New	MF2_vint_old	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	MF2_vint_old	WH	0.91	0.92	0.92	0.92	0.92	0.92	0.92
Share	NG	New	MF2_vint_NEW	Barbecue	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	New	MF2_vint_NEW	Cooking	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Share	NG	New	MF2_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	MF2_vint_NEW	Fireplace	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Share	NG	New	MF2_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_vint_NEW	Spa	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Share	NG	New	MF2_vint_NEW	SH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	New	MF2_vint_NEW	WH	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Share	NG	New	MF3_vint_old	Barbecue	0.24	0.23	0.23	0.23	0.23	0.23	0.23
Share	NG	New	MF3_vint_old	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	MF3_vint_old	Drying	0.58	0.58	0.58	0.58	0.58	0.58	0.58
Share	NG	New	MF3_vint_old	Fireplace	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Share	NG	New	MF3_vint_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_vint_old	Spa	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Share	NG	New	MF3_vint_old	SH	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Share	NG	New	MF3_vint_old	WH	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Share	NG	New	MF3_vint_NEW	Barbecue	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Share	NG	New	MF3_vint_NEW	Cooking	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Share	NG	New	MF3_vint_NEW	Drying	0.54	0.55	0.55	0.55	0.55	0.55	0.55
Share	NG	New	MF3_vint_NEW	Fireplace	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Share	NG	New	MF3_vint_NEW	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	New	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_vint_NEW	Spa	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Share	NG	New	MF3_vint_NEW	SH	0.81	0.81	0.81	0.81	0.81	0.81	0.81
Share	NG	New	MF3_vint_NEW	WH	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Share	NG	New	MM_vint_old	Barbecue	0.38	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	New	MM_vint_old	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	MM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_old	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	MM_vint_old	WH	1.04	1.04	1.04	1.04	1.04	1.04	1.04
Share	NG	New	MM_vint_NEW	Barbecue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Cooking	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Share	NG	New	MM_vint_NEW	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Share	NG	New	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MM_vint_NEW	SH	0.61	0.61	0.61	0.61	0.61	0.61	0.61
Share	NG	New	MM_vint_NEW	WH	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	SM_vint_old	Barbecue	0.38	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	New	SM_vint_old	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	SM_vint_old	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_old	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	SM_vint_old	WH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	New	SM_vint_NEW	Barbecue	0.38	0.35	0.35	0.35	0.35	0.35	0.35
Share	NG	New	SM_vint_NEW	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	SM_vint_NEW	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	New	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	SM_vint_NEW	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	SM_vint_NEW	WH	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Share	NG	Ex	MF2_Common	Barbecue	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Share	NG	Ex	MF2_Common	Cooking	0.76	0.77	0.77	0.77	0.77	0.77	0.77
Share	NG	Ex	MF2_Common	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	Ex	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF2_Common	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	Ex	MF2_Common	WH	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Share	NG	Ex	MF3_Common	Barbecue	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Share	NG	Ex	MF3_Common	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	MF3_Common	Drying	0.57	0.58	0.58	0.58	0.58	0.58	0.58
Share	NG	Ex	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	Ex	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	Ex	MF3_Common	SH	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	Ex	MF3_Common	WH	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Share	NG	New	MF2_Common	Barbecue	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Share	NG	New	MF2_Common	Cooking	0.76	0.77	0.77	0.77	0.77	0.77	0.77
Share	NG	New	MF2_Common	Drying	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Share	NG	New	MF2_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF2_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF2_Common	SH	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Share	NG	New	MF2_Common	WH	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Share	NG	New	MF3_Common	Barbecue	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Share	NG	New	MF3_Common	Cooking	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	MF3_Common	Drying	0.57	0.58	0.58	0.58	0.58	0.58	0.58



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**Table RES-10 FUEL SHARES**

Variable	Fuel Type	Vintage	Segment	End Use	2034	2035	2036	2037	2038	2039	2040
Share	NG	New	MF3_Common	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_Common	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Share	NG	New	MF3_Common	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_Common	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Share	NG	New	MF3_Common	SH	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Share	NG	New	MF3_Common	WH	0.90	0.90	0.90	0.90	0.90	0.90	0.90

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030
UEC	NG	Ex	SF_vint_old	Barbecue	14.41	14.36	14.33	14.23	14.21	14.18	14.17	14.16
UEC	NG	Ex	SF_vint_old	Cooking	27.95	27.85	27.81	27.60	27.56	27.51	27.50	27.47
UEC	NG	Ex	SF_vint_old	Drying	29.45	29.34	29.29	29.08	29.03	28.98	28.96	28.93
UEC	NG	Ex	SF_vint_old	Fireplace	10.78	10.74	10.73	10.65	10.63	10.61	10.60	10.59
UEC	NG	Ex	SF_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SF_vint_old	Pool	140.90	140.37	140.17	139.13	138.91	138.66	138.58	138.43
UEC	NG	Ex	SF_vint_old	Spa	95.58	95.22	95.08	94.38	94.23	94.06	94.01	93.91
UEC	NG	Ex	SF_vint_old	SH	232.92	232.05	231.71	229.99	229.64	229.21	229.10	228.85
UEC	NG	Ex	SF_vint_old	WH	121.77	121.32	121.14	120.24	120.06	119.84	119.77	119.65
UEC	NG	Ex	SF_vint_NEW	Barbecue	11.94	11.89	11.88	11.79	11.77	11.75	11.74	11.73
UEC	NG	Ex	SF_vint_NEW	Cooking	23.11	23.03	22.99	22.82	22.79	22.75	22.74	22.71
UEC	NG	Ex	SF_vint_NEW	Drying	24.35	24.26	24.22	24.04	24.01	23.96	23.95	23.93
UEC	NG	Ex	SF_vint_NEW	Fireplace	8.94	8.90	8.89	8.83	8.81	8.80	8.79	8.78
UEC	NG	Ex	SF_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SF_vint_NEW	Pool	116.65	116.21	116.05	115.19	115.01	114.80	114.74	114.61
UEC	NG	Ex	SF_vint_NEW	Spa	79.39	79.09	78.98	78.39	78.27	78.12	78.08	78.00
UEC	NG	Ex	SF_vint_NEW	SH	192.60	191.87	191.60	190.17	189.88	189.53	189.43	189.23
UEC	NG	Ex	SF_vint_NEW	WH	100.69	100.31	100.17	99.43	99.27	99.09	99.04	98.93
UEC	NG	Ex	MF2_vint_old	Barbecue	14.22	14.18	14.17	14.09	14.07	14.05	14.05	14.04
UEC	NG	Ex	MF2_vint_old	Cooking	28.58	28.50	28.47	28.31	28.28	28.24	28.23	28.21
UEC	NG	Ex	MF2_vint_old	Drying	30.49	30.40	30.37	30.20	30.17	30.13	30.11	30.09
UEC	NG	Ex	MF2_vint_old	Fireplace	6.49	6.47	6.47	6.43	6.42	6.41	6.41	6.41
UEC	NG	Ex	MF2_vint_old	Other	18.97	18.91	18.89	18.79	18.77	18.74	18.74	18.72
UEC	NG	Ex	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF2_vint_old	Spa	55.92	55.77	55.71	55.40	55.33	55.26	55.24	55.19
UEC	NG	Ex	MF2_vint_old	SH	134.07	133.69	133.55	132.81	132.66	132.47	132.42	132.32
UEC	NG	Ex	MF2_vint_old	WH	110.17	109.86	109.75	109.14	109.01	108.86	108.82	108.73
UEC	NG	Ex	MF2_vint_NEW	Barbecue	10.10	10.07	10.06	10.00	9.99	9.98	9.98	9.97
UEC	NG	Ex	MF2_vint_NEW	Cooking	20.14	20.08	20.06	19.95	19.93	19.90	19.89	19.88
UEC	NG	Ex	MF2_vint_NEW	Drying	21.54	21.48	21.46	21.34	21.32	21.29	21.28	21.26
UEC	NG	Ex	MF2_vint_NEW	Fireplace	6.49	6.47	6.47	6.43	6.42	6.41	6.41	6.41
UEC	NG	Ex	MF2_vint_NEW	Other	18.97	18.91	18.89	18.79	18.77	18.74	18.74	18.72

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030
UEC	NG	Ex	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF2_vint_NEW	Spa	55.92	55.77	55.71	55.40	55.33	55.26	55.24	55.19
UEC	NG	Ex	MF2_vint_NEW	SH	94.47	94.21	94.11	93.58	93.48	93.35	93.31	93.24
UEC	NG	Ex	MF2_vint_NEW	WH	77.63	77.41	77.33	76.90	76.81	76.71	76.68	76.62
UEC	NG	Ex	MF3_vint_old	Barbecue	11.83	11.81	11.80	11.75	11.74	11.73	11.73	11.72
UEC	NG	Ex	MF3_vint_old	Cooking	20.29	20.25	20.24	20.16	20.14	20.13	20.12	20.11
UEC	NG	Ex	MF3_vint_old	Drying	20.09	20.05	20.03	19.96	19.94	19.92	19.92	19.90
UEC	NG	Ex	MF3_vint_old	Fireplace	5.20	5.19	5.18	5.16	5.16	5.15	5.15	5.15
UEC	NG	Ex	MF3_vint_old	Other	42.36	42.28	42.25	42.08	42.05	42.01	42.00	41.97
UEC	NG	Ex	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF3_vint_old	Spa	45.08	44.99	44.96	44.79	44.75	44.71	44.70	44.67
UEC	NG	Ex	MF3_vint_old	SH	124.13	123.89	123.80	123.32	123.23	123.11	123.08	123.01
UEC	NG	Ex	MF3_vint_old	WH	98.79	98.60	98.52	98.14	98.07	97.97	97.95	97.89
UEC	NG	Ex	MF3_vint_NEW	Barbecue	7.80	7.78	7.78	7.75	7.74	7.73	7.73	7.73
UEC	NG	Ex	MF3_vint_NEW	Cooking	13.26	13.23	13.22	13.17	13.16	13.15	13.14	13.14
UEC	NG	Ex	MF3_vint_NEW	Drying	13.29	13.27	13.26	13.21	13.20	13.18	13.18	13.17
UEC	NG	Ex	MF3_vint_NEW	Fireplace	5.20	5.19	5.18	5.16	5.16	5.15	5.15	5.15
UEC	NG	Ex	MF3_vint_NEW	Other	42.36	42.28	42.25	42.08	42.05	42.01	42.00	41.97
UEC	NG	Ex	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF3_vint_NEW	Spa	45.08	44.99	44.96	44.79	44.75	44.71	44.70	44.67
UEC	NG	Ex	MF3_vint_NEW	SH	83.32	83.16	83.10	82.78	82.71	82.63	82.61	82.57
UEC	NG	Ex	MF3_vint_NEW	WH	68.00	67.87	67.82	67.56	67.50	67.44	67.42	67.38
UEC	NG	Ex	MM_vint_old	Barbecue	10.22	10.21	10.20	10.18	10.17	10.17	10.17	10.16
UEC	NG	Ex	MM_vint_old	Cooking	18.67	18.65	18.64	18.60	18.59	18.58	18.57	18.57
UEC	NG	Ex	MM_vint_old	Drying	18.73	18.71	18.70	18.65	18.64	18.63	18.63	18.62
UEC	NG	Ex	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	SH	66.76	66.68	66.65	66.49	66.45	66.41	66.40	66.38
UEC	NG	Ex	MM_vint_old	WH	66.78	66.70	66.67	66.50	66.47	66.43	66.42	66.39
UEC	NG	Ex	MM_vint_NEW	Barbecue	12.75	12.74	12.73	12.70	12.69	12.68	12.68	12.68

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030
UEC	NG	Ex	MM_vint_NEW	Cooking	23.74	23.71	23.70	23.64	23.63	23.61	23.61	23.60
UEC	NG	Ex	MM_vint_NEW	Drying	23.55	23.52	23.51	23.45	23.44	23.42	23.42	23.41
UEC	NG	Ex	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	SH	84.87	84.77	84.73	84.52	84.47	84.42	84.41	84.38
UEC	NG	Ex	MM_vint_NEW	WH	84.89	84.79	84.75	84.54	84.50	84.45	84.43	84.40
UEC	NG	Ex	SM_vint_old	Barbecue	11.92	11.88	11.86	11.77	11.76	11.73	11.73	11.71
UEC	NG	Ex	SM_vint_old	Cooking	22.55	22.47	22.44	22.27	22.24	22.20	22.18	22.16
UEC	NG	Ex	SM_vint_old	Drying	24.64	24.55	24.51	24.33	24.29	24.25	24.24	24.21
UEC	NG	Ex	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	SH	179.63	178.96	178.71	177.38	177.11	176.79	176.70	176.51
UEC	NG	Ex	SM_vint_old	WH	103.35	102.96	102.81	102.05	101.89	101.71	101.66	101.55
UEC	NG	Ex	SM_vint_NEW	Barbecue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	SH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	WH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SF_vint_old	Barbecue	14.41	14.36	14.33	14.23	14.21	14.18	14.17	14.16
UEC	NG	New	SF_vint_old	Cooking	27.95	27.85	27.81	27.60	27.56	27.51	27.50	27.47
UEC	NG	New	SF_vint_old	Drying	29.45	29.34	29.29	29.08	29.03	28.98	28.96	28.93
UEC	NG	New	SF_vint_old	Fireplace	10.78	10.74	10.73	10.65	10.63	10.61	10.60	10.59
UEC	NG	New	SF_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SF_vint_old	Pool	140.90	140.37	140.17	139.13	138.91	138.66	138.58	138.43

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030
UEC	NG	New	SF_vint_old	Spa	95.58	95.22	95.08	94.38	94.23	94.06	94.01	93.91
UEC	NG	New	SF_vint_old	SH	232.92	232.05	231.71	229.99	229.64	229.21	229.10	228.85
UEC	NG	New	SF_vint_old	WH	121.77	121.32	121.14	120.24	120.06	119.84	119.77	119.65
UEC	NG	New	SF_vint_NEW	Barbecue	11.94	11.89	11.88	11.79	11.77	11.75	11.74	11.73
UEC	NG	New	SF_vint_NEW	Cooking	23.11	23.03	22.99	22.82	22.79	22.75	22.74	22.71
UEC	NG	New	SF_vint_NEW	Drying	24.35	24.26	24.22	24.04	24.01	23.96	23.95	23.93
UEC	NG	New	SF_vint_NEW	Fireplace	8.94	8.90	8.89	8.83	8.81	8.80	8.79	8.78
UEC	NG	New	SF_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SF_vint_NEW	Pool	116.65	116.21	116.05	115.19	115.01	114.80	114.74	114.61
UEC	NG	New	SF_vint_NEW	Spa	79.39	79.09	78.98	78.39	78.27	78.12	78.08	78.00
UEC	NG	New	SF_vint_NEW	SH	192.60	191.87	191.60	190.17	189.88	189.53	189.43	189.23
UEC	NG	New	SF_vint_NEW	WH	100.69	100.31	100.17	99.43	99.27	99.09	99.04	98.93
UEC	NG	New	MF2_vint_old	Barbecue	14.22	14.18	14.17	14.09	14.07	14.05	14.05	14.04
UEC	NG	New	MF2_vint_old	Cooking	28.58	28.50	28.47	28.31	28.28	28.24	28.23	28.21
UEC	NG	New	MF2_vint_old	Drying	30.49	30.40	30.37	30.20	30.17	30.13	30.11	30.09
UEC	NG	New	MF2_vint_old	Fireplace	6.49	6.47	6.47	6.43	6.42	6.41	6.41	6.41
UEC	NG	New	MF2_vint_old	Other	18.97	18.91	18.89	18.79	18.77	18.74	18.74	18.72
UEC	NG	New	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF2_vint_old	Spa	55.92	55.77	55.71	55.40	55.33	55.26	55.24	55.19
UEC	NG	New	MF2_vint_old	SH	134.07	133.69	133.55	132.81	132.66	132.47	132.42	132.32
UEC	NG	New	MF2_vint_old	WH	110.17	109.86	109.75	109.14	109.01	108.86	108.82	108.73
UEC	NG	New	MF2_vint_NEW	Barbecue	10.10	10.07	10.06	10.00	9.99	9.98	9.98	9.97
UEC	NG	New	MF2_vint_NEW	Cooking	20.14	20.08	20.06	19.95	19.93	19.90	19.89	19.88
UEC	NG	New	MF2_vint_NEW	Drying	21.54	21.48	21.46	21.34	21.32	21.29	21.28	21.26
UEC	NG	New	MF2_vint_NEW	Fireplace	6.49	6.47	6.47	6.43	6.42	6.41	6.41	6.41
UEC	NG	New	MF2_vint_NEW	Other	18.97	18.91	18.89	18.79	18.77	18.74	18.74	18.72
UEC	NG	New	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF2_vint_NEW	Spa	55.92	55.77	55.71	55.40	55.33	55.26	55.24	55.19
UEC	NG	New	MF2_vint_NEW	SH	94.47	94.21	94.11	93.58	93.48	93.35	93.31	93.24
UEC	NG	New	MF2_vint_NEW	WH	77.63	77.41	77.33	76.90	76.81	76.71	76.68	76.62
UEC	NG	New	MF3_vint_old	Barbecue	11.83	11.81	11.80	11.75	11.74	11.73	11.73	11.72
UEC	NG	New	MF3_vint_old	Cooking	20.29	20.25	20.24	20.16	20.14	20.13	20.12	20.11

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030
UEC	NG	New	MF3_vint_old	Drying	20.09	20.05	20.03	19.96	19.94	19.92	19.92	19.90
UEC	NG	New	MF3_vint_old	Fireplace	5.20	5.19	5.18	5.16	5.16	5.15	5.15	5.15
UEC	NG	New	MF3_vint_old	Other	42.36	42.28	42.25	42.08	42.05	42.01	42.00	41.97
UEC	NG	New	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF3_vint_old	Spa	45.08	44.99	44.96	44.79	44.75	44.71	44.70	44.67
UEC	NG	New	MF3_vint_old	SH	124.13	123.89	123.80	123.32	123.23	123.11	123.08	123.01
UEC	NG	New	MF3_vint_old	WH	98.79	98.60	98.52	98.14	98.07	97.97	97.95	97.89
UEC	NG	New	MF3_vint_NEW	Barbecue	7.80	7.78	7.78	7.75	7.74	7.73	7.73	7.73
UEC	NG	New	MF3_vint_NEW	Cooking	13.26	13.23	13.22	13.17	13.16	13.15	13.14	13.14
UEC	NG	New	MF3_vint_NEW	Drying	13.29	13.27	13.26	13.21	13.20	13.18	13.18	13.17
UEC	NG	New	MF3_vint_NEW	Fireplace	5.20	5.19	5.18	5.16	5.16	5.15	5.15	5.15
UEC	NG	New	MF3_vint_NEW	Other	42.36	42.28	42.25	42.08	42.05	42.01	42.00	41.97
UEC	NG	New	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF3_vint_NEW	Spa	45.08	44.99	44.96	44.79	44.75	44.71	44.70	44.67
UEC	NG	New	MF3_vint_NEW	SH	83.32	83.16	83.10	82.78	82.71	82.63	82.61	82.57
UEC	NG	New	MF3_vint_NEW	WH	68.00	67.87	67.82	67.56	67.50	67.44	67.42	67.38
UEC	NG	New	MM_vint_old	Barbecue	10.22	10.21	10.20	10.18	10.17	10.17	10.17	10.16
UEC	NG	New	MM_vint_old	Cooking	18.67	18.65	18.64	18.60	18.59	18.58	18.57	18.57
UEC	NG	New	MM_vint_old	Drying	18.73	18.71	18.70	18.65	18.64	18.63	18.63	18.62
UEC	NG	New	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	SH	66.76	66.68	66.65	66.49	66.45	66.41	66.40	66.38
UEC	NG	New	MM_vint_old	WH	66.78	66.70	66.67	66.50	66.47	66.43	66.42	66.39
UEC	NG	New	MM_vint_NEW	Barbecue	12.75	12.74	12.73	12.70	12.69	12.68	12.68	12.68
UEC	NG	New	MM_vint_NEW	Cooking	23.74	23.71	23.70	23.64	23.63	23.61	23.61	23.60
UEC	NG	New	MM_vint_NEW	Drying	23.55	23.52	23.51	23.45	23.44	23.42	23.42	23.41
UEC	NG	New	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2023	2024	2025	2026	2027	2028	2029	2030
UEC	NG	New	MM_vint_NEW	SH	84.87	84.77	84.73	84.52	84.47	84.42	84.41	84.38
UEC	NG	New	MM_vint_NEW	WH	84.89	84.79	84.75	84.54	84.50	84.45	84.43	84.40
UEC	NG	New	SM_vint_old	Barbecue	11.92	11.88	11.86	11.77	11.76	11.73	11.73	11.71
UEC	NG	New	SM_vint_old	Cooking	22.55	22.47	22.44	22.27	22.24	22.20	22.18	22.16
UEC	NG	New	SM_vint_old	Drying	24.64	24.55	24.51	24.33	24.29	24.25	24.24	24.21
UEC	NG	New	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	SH	179.63	178.96	178.71	177.38	177.11	176.79	176.70	176.51
UEC	NG	New	SM_vint_old	WH	103.35	102.96	102.81	102.05	101.89	101.71	101.66	101.55
UEC	NG	New	SM_vint_NEW	Barbecue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	SH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	WH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2031	2032	2033	2034	2035	2036	2037	2038
UEC	NG	Ex	SF_vint_old	Barbecue	14.17	14.17	14.16	14.16	14.17	14.17	14.16	14.16
UEC	NG	Ex	SF_vint_old	Cooking	27.49	27.49	27.48	27.47	27.48	27.48	27.47	27.47
UEC	NG	Ex	SF_vint_old	Drying	28.95	28.96	28.95	28.94	28.95	28.95	28.94	28.93
UEC	NG	Ex	SF_vint_old	Fireplace	10.60	10.60	10.60	10.60	10.60	10.60	10.59	10.59
UEC	NG	Ex	SF_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SF_vint_old	Pool	138.54	138.55	138.50	138.47	138.53	138.52	138.46	138.45
UEC	NG	Ex	SF_vint_old	Spa	93.98	93.98	93.95	93.93	93.97	93.96	93.92	93.92
UEC	NG	Ex	SF_vint_old	SH	229.02	229.04	228.96	228.91	229.00	228.98	228.89	228.87
UEC	NG	Ex	SF_vint_old	WH	119.74	119.74	119.70	119.68	119.73	119.72	119.67	119.66
UEC	NG	Ex	SF_vint_NEW	Barbecue	11.74	11.74	11.73	11.73	11.74	11.74	11.73	11.73
UEC	NG	Ex	SF_vint_NEW	Cooking	22.73	22.73	22.72	22.72	22.73	22.72	22.71	22.71
UEC	NG	Ex	SF_vint_NEW	Drying	23.94	23.95	23.94	23.93	23.94	23.94	23.93	23.93
UEC	NG	Ex	SF_vint_NEW	Fireplace	8.79	8.79	8.79	8.78	8.79	8.79	8.78	8.78
UEC	NG	Ex	SF_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SF_vint_NEW	Pool	114.70	114.71	114.67	114.65	114.69	114.68	114.63	114.62
UEC	NG	Ex	SF_vint_NEW	Spa	78.06	78.06	78.04	78.02	78.05	78.05	78.01	78.01
UEC	NG	Ex	SF_vint_NEW	SH	189.37	189.39	189.32	189.28	189.36	189.34	189.26	189.25
UEC	NG	Ex	SF_vint_NEW	WH	99.01	99.01	98.98	98.96	99.00	98.99	98.95	98.94
UEC	NG	Ex	MF2_vint_old	Barbecue	14.05	14.05	14.04	14.04	14.04	14.04	14.04	14.04
UEC	NG	Ex	MF2_vint_old	Cooking	28.22	28.23	28.22	28.21	28.22	28.22	28.21	28.21
UEC	NG	Ex	MF2_vint_old	Drying	30.11	30.11	30.10	30.10	30.11	30.10	30.09	30.09
UEC	NG	Ex	MF2_vint_old	Fireplace	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41
UEC	NG	Ex	MF2_vint_old	Other	18.73	18.73	18.73	18.72	18.73	18.73	18.72	18.72
UEC	NG	Ex	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF2_vint_old	Spa	55.22	55.23	55.21	55.20	55.22	55.22	55.20	55.20
UEC	NG	Ex	MF2_vint_old	SH	132.39	132.40	132.36	132.35	132.38	132.37	132.33	132.33
UEC	NG	Ex	MF2_vint_old	WH	108.79	108.80	108.77	108.75	108.79	108.78	108.75	108.74
UEC	NG	Ex	MF2_vint_NEW	Barbecue	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97
UEC	NG	Ex	MF2_vint_NEW	Cooking	19.89	19.89	19.88	19.88	19.89	19.89	19.88	19.88
UEC	NG	Ex	MF2_vint_NEW	Drying	21.27	21.27	21.27	21.27	21.27	21.27	21.26	21.26
UEC	NG	Ex	MF2_vint_NEW	Fireplace	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41
UEC	NG	Ex	MF2_vint_NEW	Other	18.73	18.73	18.73	18.72	18.73	18.73	18.72	18.72



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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2031	2032	2033	2034	2035	2036	2037	2038
UEC	NG	Ex	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF2_vint_NEW	Spa	55.22	55.23	55.21	55.20	55.22	55.22	55.20	55.20
UEC	NG	Ex	MF2_vint_NEW	SH	93.29	93.30	93.27	93.26	93.28	93.28	93.25	93.24
UEC	NG	Ex	MF2_vint_NEW	WH	76.66	76.67	76.65	76.63	76.66	76.65	76.63	76.62
UEC	NG	Ex	MF3_vint_old	Barbecue	11.73	11.73	11.73	11.72	11.73	11.73	11.72	11.72
UEC	NG	Ex	MF3_vint_old	Cooking	20.12	20.12	20.11	20.11	20.12	20.11	20.11	20.11
UEC	NG	Ex	MF3_vint_old	Drying	19.91	19.91	19.91	19.91	19.91	19.91	19.91	19.91
UEC	NG	Ex	MF3_vint_old	Fireplace	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15
UEC	NG	Ex	MF3_vint_old	Other	41.99	41.99	41.98	41.98	41.99	41.99	41.98	41.98
UEC	NG	Ex	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF3_vint_old	Spa	44.69	44.69	44.68	44.68	44.69	44.69	44.68	44.67
UEC	NG	Ex	MF3_vint_old	SH	123.05	123.06	123.04	123.02	123.05	123.04	123.02	123.01
UEC	NG	Ex	MF3_vint_old	WH	97.93	97.93	97.92	97.91	97.93	97.92	97.90	97.90
UEC	NG	Ex	MF3_vint_NEW	Barbecue	7.73	7.73	7.73	7.73	7.73	7.73	7.73	7.73
UEC	NG	Ex	MF3_vint_NEW	Cooking	13.14	13.14	13.14	13.14	13.14	13.14	13.14	13.14
UEC	NG	Ex	MF3_vint_NEW	Drying	13.18	13.18	13.18	13.18	13.18	13.18	13.17	13.17
UEC	NG	Ex	MF3_vint_NEW	Fireplace	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15
UEC	NG	Ex	MF3_vint_NEW	Other	41.99	41.99	41.98	41.98	41.99	41.99	41.98	41.98
UEC	NG	Ex	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MF3_vint_NEW	Spa	44.69	44.69	44.68	44.68	44.69	44.69	44.68	44.67
UEC	NG	Ex	MF3_vint_NEW	SH	82.60	82.60	82.59	82.58	82.59	82.59	82.57	82.57
UEC	NG	Ex	MF3_vint_NEW	WH	67.41	67.41	67.40	67.39	67.41	67.41	67.39	67.39
UEC	NG	Ex	MM_vint_old	Barbecue	10.17	10.17	10.16	10.16	10.17	10.16	10.16	10.16
UEC	NG	Ex	MM_vint_old	Cooking	18.57	18.57	18.57	18.57	18.57	18.57	18.57	18.57
UEC	NG	Ex	MM_vint_old	Drying	18.63	18.63	18.62	18.62	18.63	18.62	18.62	18.62
UEC	NG	Ex	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_old	SH	66.39	66.40	66.39	66.38	66.39	66.39	66.38	66.38
UEC	NG	Ex	MM_vint_old	WH	66.41	66.41	66.40	66.40	66.41	66.41	66.40	66.40
UEC	NG	Ex	MM_vint_NEW	Barbecue	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.68

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2031	2032	2033	2034	2035	2036	2037	2038
UEC	NG	Ex	MM_vint_NEW	Cooking	23.61	23.61	23.61	23.60	23.61	23.61	23.60	23.60
UEC	NG	Ex	MM_vint_NEW	Drying	23.42	23.42	23.41	23.41	23.42	23.42	23.41	23.41
UEC	NG	Ex	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	SH	84.40	84.40	84.39	84.39	84.40	84.40	84.38	84.38
UEC	NG	Ex	MM_vint_NEW	WH	84.42	84.42	84.41	84.41	84.42	84.42	84.41	84.40
UEC	NG	Ex	SM_vint_old	Barbecue	11.72	11.72	11.72	11.72	11.72	11.72	11.72	11.72
UEC	NG	Ex	SM_vint_old	Cooking	22.18	22.18	22.17	22.17	22.17	22.17	22.16	22.16
UEC	NG	Ex	SM_vint_old	Drying	24.23	24.23	24.22	24.22	24.23	24.23	24.22	24.21
UEC	NG	Ex	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_old	SH	176.64	176.65	176.59	176.56	176.62	176.61	176.54	176.52
UEC	NG	Ex	SM_vint_old	WH	101.62	101.63	101.59	101.58	101.61	101.61	101.56	101.56
UEC	NG	Ex	SM_vint_NEW	Barbecue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	SH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	WH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SF_vint_old	Barbecue	14.17	14.17	14.16	14.16	14.17	14.17	14.16	14.16
UEC	NG	New	SF_vint_old	Cooking	27.49	27.49	27.48	27.47	27.48	27.48	27.47	27.47
UEC	NG	New	SF_vint_old	Drying	28.95	28.96	28.95	28.94	28.95	28.95	28.94	28.93
UEC	NG	New	SF_vint_old	Fireplace	10.60	10.60	10.60	10.60	10.60	10.60	10.59	10.59
UEC	NG	New	SF_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SF_vint_old	Pool	138.54	138.55	138.50	138.47	138.53	138.52	138.46	138.45

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2031	2032	2033	2034	2035	2036	2037	2038
UEC	NG	New	SF_vint_old	Spa	93.98	93.98	93.95	93.93	93.97	93.96	93.92	93.92
UEC	NG	New	SF_vint_old	SH	229.02	229.04	228.96	228.91	229.00	228.98	228.89	228.87
UEC	NG	New	SF_vint_old	WH	119.74	119.74	119.70	119.68	119.73	119.72	119.67	119.66
UEC	NG	New	SF_vint_NEW	Barbecue	11.74	11.74	11.73	11.73	11.74	11.74	11.73	11.73
UEC	NG	New	SF_vint_NEW	Cooking	22.73	22.73	22.72	22.72	22.73	22.72	22.71	22.71
UEC	NG	New	SF_vint_NEW	Drying	23.94	23.95	23.94	23.93	23.94	23.94	23.93	23.93
UEC	NG	New	SF_vint_NEW	Fireplace	8.79	8.79	8.79	8.78	8.79	8.79	8.78	8.78
UEC	NG	New	SF_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SF_vint_NEW	Pool	114.70	114.71	114.67	114.65	114.69	114.68	114.63	114.62
UEC	NG	New	SF_vint_NEW	Spa	78.06	78.06	78.04	78.02	78.05	78.05	78.01	78.01
UEC	NG	New	SF_vint_NEW	SH	189.37	189.39	189.32	189.28	189.36	189.34	189.26	189.25
UEC	NG	New	SF_vint_NEW	WH	99.01	99.01	98.98	98.96	99.00	98.99	98.95	98.94
UEC	NG	New	MF2_vint_old	Barbecue	14.05	14.05	14.04	14.04	14.04	14.04	14.04	14.04
UEC	NG	New	MF2_vint_old	Cooking	28.22	28.23	28.22	28.21	28.22	28.22	28.21	28.21
UEC	NG	New	MF2_vint_old	Drying	30.11	30.11	30.10	30.10	30.11	30.10	30.09	30.09
UEC	NG	New	MF2_vint_old	Fireplace	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41
UEC	NG	New	MF2_vint_old	Other	18.73	18.73	18.73	18.72	18.73	18.73	18.72	18.72
UEC	NG	New	MF2_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF2_vint_old	Spa	55.22	55.23	55.21	55.20	55.22	55.22	55.20	55.20
UEC	NG	New	MF2_vint_old	SH	132.39	132.40	132.36	132.35	132.38	132.37	132.33	132.33
UEC	NG	New	MF2_vint_old	WH	108.79	108.80	108.77	108.75	108.79	108.78	108.75	108.74
UEC	NG	New	MF2_vint_NEW	Barbecue	9.97	9.97	9.97	9.97	9.97	9.97	9.97	9.97
UEC	NG	New	MF2_vint_NEW	Cooking	19.89	19.89	19.88	19.88	19.89	19.89	19.88	19.88
UEC	NG	New	MF2_vint_NEW	Drying	21.27	21.27	21.27	21.27	21.27	21.27	21.26	21.26
UEC	NG	New	MF2_vint_NEW	Fireplace	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41
UEC	NG	New	MF2_vint_NEW	Other	18.73	18.73	18.73	18.72	18.73	18.73	18.72	18.72
UEC	NG	New	MF2_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF2_vint_NEW	Spa	55.22	55.23	55.21	55.20	55.22	55.22	55.20	55.20
UEC	NG	New	MF2_vint_NEW	SH	93.29	93.30	93.27	93.26	93.28	93.28	93.25	93.24
UEC	NG	New	MF2_vint_NEW	WH	76.66	76.67	76.65	76.63	76.66	76.65	76.63	76.62
UEC	NG	New	MF3_vint_old	Barbecue	11.73	11.73	11.73	11.72	11.73	11.73	11.72	11.72
UEC	NG	New	MF3_vint_old	Cooking	20.12	20.12	20.11	20.11	20.12	20.11	20.11	20.11

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2031	2032	2033	2034	2035	2036	2037	2038
UEC	NG	New	MF3_vint_old	Drying	19.91	19.91	19.91	19.91	19.91	19.91	19.91	19.91
UEC	NG	New	MF3_vint_old	Fireplace	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15
UEC	NG	New	MF3_vint_old	Other	41.99	41.99	41.98	41.98	41.99	41.99	41.98	41.98
UEC	NG	New	MF3_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF3_vint_old	Spa	44.69	44.69	44.68	44.68	44.69	44.69	44.68	44.67
UEC	NG	New	MF3_vint_old	SH	123.05	123.06	123.04	123.02	123.05	123.04	123.02	123.01
UEC	NG	New	MF3_vint_old	WH	97.93	97.93	97.92	97.91	97.93	97.92	97.90	97.90
UEC	NG	New	MF3_vint_NEW	Barbecue	7.73	7.73	7.73	7.73	7.73	7.73	7.73	7.73
UEC	NG	New	MF3_vint_NEW	Cooking	13.14	13.14	13.14	13.14	13.14	13.14	13.14	13.14
UEC	NG	New	MF3_vint_NEW	Drying	13.18	13.18	13.18	13.18	13.18	13.18	13.17	13.17
UEC	NG	New	MF3_vint_NEW	Fireplace	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15
UEC	NG	New	MF3_vint_NEW	Other	41.99	41.99	41.98	41.98	41.99	41.99	41.98	41.98
UEC	NG	New	MF3_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MF3_vint_NEW	Spa	44.69	44.69	44.68	44.68	44.69	44.69	44.68	44.67
UEC	NG	New	MF3_vint_NEW	SH	82.60	82.60	82.59	82.58	82.59	82.59	82.57	82.57
UEC	NG	New	MF3_vint_NEW	WH	67.41	67.41	67.40	67.39	67.41	67.41	67.39	67.39
UEC	NG	New	MM_vint_old	Barbecue	10.17	10.17	10.16	10.16	10.17	10.16	10.16	10.16
UEC	NG	New	MM_vint_old	Cooking	18.57	18.57	18.57	18.57	18.57	18.57	18.57	18.57
UEC	NG	New	MM_vint_old	Drying	18.63	18.63	18.62	18.62	18.63	18.62	18.62	18.62
UEC	NG	New	MM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_old	SH	66.39	66.40	66.39	66.38	66.39	66.39	66.38	66.38
UEC	NG	New	MM_vint_old	WH	66.41	66.41	66.40	66.40	66.41	66.41	66.40	66.40
UEC	NG	New	MM_vint_NEW	Barbecue	12.68	12.68	12.68	12.68	12.68	12.68	12.68	12.68
UEC	NG	New	MM_vint_NEW	Cooking	23.61	23.61	23.61	23.60	23.61	23.61	23.60	23.60
UEC	NG	New	MM_vint_NEW	Drying	23.42	23.42	23.41	23.41	23.42	23.42	23.41	23.41
UEC	NG	New	MM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	MM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2031	2032	2033	2034	2035	2036	2037	2038
UEC	NG	New	MM_vint_NEW	SH	84.40	84.40	84.39	84.39	84.40	84.40	84.38	84.38
UEC	NG	New	MM_vint_NEW	WH	84.42	84.42	84.41	84.41	84.42	84.42	84.41	84.40
UEC	NG	New	SM_vint_old	Barbecue	11.72	11.72	11.72	11.72	11.72	11.72	11.72	11.72
UEC	NG	New	SM_vint_old	Cooking	22.18	22.18	22.17	22.17	22.17	22.17	22.16	22.16
UEC	NG	New	SM_vint_old	Drying	24.23	24.23	24.22	24.22	24.23	24.23	24.22	24.21
UEC	NG	New	SM_vint_old	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_old	SH	176.64	176.65	176.59	176.56	176.62	176.61	176.54	176.52
UEC	NG	New	SM_vint_old	WH	101.62	101.63	101.59	101.58	101.61	101.61	101.56	101.56
UEC	NG	New	SM_vint_NEW	Barbecue	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Fireplace	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	Spa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	SH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEC	NG	New	SM_vint_NEW	WH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2039	2040
UEC	NG	Ex	SF_vint_old	Barbecue	14.16	14.16
UEC	NG	Ex	SF_vint_old	Cooking	27.47	27.47
UEC	NG	Ex	SF_vint_old	Drying	28.94	28.93
UEC	NG	Ex	SF_vint_old	Fireplace	10.59	10.59
UEC	NG	Ex	SF_vint_old	Other	0.00	0.00
UEC	NG	Ex	SF_vint_old	Pool	138.45	138.44
UEC	NG	Ex	SF_vint_old	Spa	93.92	93.91
UEC	NG	Ex	SF_vint_old	SH	228.88	228.86
UEC	NG	Ex	SF_vint_old	WH	119.66	119.65
UEC	NG	Ex	SF_vint_NEW	Barbecue	11.73	11.73
UEC	NG	Ex	SF_vint_NEW	Cooking	22.71	22.71
UEC	NG	Ex	SF_vint_NEW	Drying	23.93	23.93
UEC	NG	Ex	SF_vint_NEW	Fireplace	8.78	8.78
UEC	NG	Ex	SF_vint_NEW	Other	0.00	0.00
UEC	NG	Ex	SF_vint_NEW	Pool	114.63	114.62
UEC	NG	Ex	SF_vint_NEW	Spa	78.01	78.00
UEC	NG	Ex	SF_vint_NEW	SH	189.26	189.24
UEC	NG	Ex	SF_vint_NEW	WH	98.95	98.94
UEC	NG	Ex	MF2_vint_old	Barbecue	14.04	14.04
UEC	NG	Ex	MF2_vint_old	Cooking	28.21	28.21
UEC	NG	Ex	MF2_vint_old	Drying	30.09	30.09
UEC	NG	Ex	MF2_vint_old	Fireplace	6.41	6.41
UEC	NG	Ex	MF2_vint_old	Other	18.72	18.72
UEC	NG	Ex	MF2_vint_old	Pool	0.00	0.00
UEC	NG	Ex	MF2_vint_old	Spa	55.20	55.19
UEC	NG	Ex	MF2_vint_old	SH	132.33	132.32
UEC	NG	Ex	MF2_vint_old	WH	108.74	108.73
UEC	NG	Ex	MF2_vint_NEW	Barbecue	9.97	9.97
UEC	NG	Ex	MF2_vint_NEW	Cooking	19.88	19.88
UEC	NG	Ex	MF2_vint_NEW	Drying	21.26	21.26
UEC	NG	Ex	MF2_vint_NEW	Fireplace	6.41	6.41
UEC	NG	Ex	MF2_vint_NEW	Other	18.72	18.72

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2039	2040
UEC	NG	Ex	MF2_vint_NEW	Pool	0.00	0.00
UEC	NG	Ex	MF2_vint_NEW	Spa	55.20	55.19
UEC	NG	Ex	MF2_vint_NEW	SH	93.25	93.24
UEC	NG	Ex	MF2_vint_NEW	WH	76.63	76.62
UEC	NG	Ex	MF3_vint_old	Barbecue	11.72	11.72
UEC	NG	Ex	MF3_vint_old	Cooking	20.11	20.11
UEC	NG	Ex	MF3_vint_old	Drying	19.91	19.90
UEC	NG	Ex	MF3_vint_old	Fireplace	5.15	5.15
UEC	NG	Ex	MF3_vint_old	Other	41.98	41.98
UEC	NG	Ex	MF3_vint_old	Pool	0.00	0.00
UEC	NG	Ex	MF3_vint_old	Spa	44.68	44.67
UEC	NG	Ex	MF3_vint_old	SH	123.01	123.01
UEC	NG	Ex	MF3_vint_old	WH	97.90	97.89
UEC	NG	Ex	MF3_vint_NEW	Barbecue	7.73	7.73
UEC	NG	Ex	MF3_vint_NEW	Cooking	13.14	13.14
UEC	NG	Ex	MF3_vint_NEW	Drying	13.17	13.17
UEC	NG	Ex	MF3_vint_NEW	Fireplace	5.15	5.15
UEC	NG	Ex	MF3_vint_NEW	Other	41.98	41.98
UEC	NG	Ex	MF3_vint_NEW	Pool	0.00	0.00
UEC	NG	Ex	MF3_vint_NEW	Spa	44.68	44.67
UEC	NG	Ex	MF3_vint_NEW	SH	82.57	82.57
UEC	NG	Ex	MF3_vint_NEW	WH	67.39	67.39
UEC	NG	Ex	MM_vint_old	Barbecue	10.16	10.16
UEC	NG	Ex	MM_vint_old	Cooking	18.57	18.57
UEC	NG	Ex	MM_vint_old	Drying	18.62	18.62
UEC	NG	Ex	MM_vint_old	Fireplace	0.00	0.00
UEC	NG	Ex	MM_vint_old	Other	0.00	0.00
UEC	NG	Ex	MM_vint_old	Pool	0.00	0.00
UEC	NG	Ex	MM_vint_old	Spa	0.00	0.00
UEC	NG	Ex	MM_vint_old	SH	66.38	66.38
UEC	NG	Ex	MM_vint_old	WH	66.40	66.40
UEC	NG	Ex	MM_vint_NEW	Barbecue	12.68	12.68

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2039	2040
UEC	NG	Ex	MM_vint_NEW	Cooking	23.60	23.60
UEC	NG	Ex	MM_vint_NEW	Drying	23.41	23.41
UEC	NG	Ex	MM_vint_NEW	Fireplace	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Other	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Pool	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	Spa	0.00	0.00
UEC	NG	Ex	MM_vint_NEW	SH	84.38	84.38
UEC	NG	Ex	MM_vint_NEW	WH	84.41	84.40
UEC	NG	Ex	SM_vint_old	Barbecue	11.72	11.72
UEC	NG	Ex	SM_vint_old	Cooking	22.16	22.16
UEC	NG	Ex	SM_vint_old	Drying	24.22	24.21
UEC	NG	Ex	SM_vint_old	Fireplace	0.00	0.00
UEC	NG	Ex	SM_vint_old	Other	0.00	0.00
UEC	NG	Ex	SM_vint_old	Pool	0.00	0.00
UEC	NG	Ex	SM_vint_old	Spa	0.00	0.00
UEC	NG	Ex	SM_vint_old	SH	176.53	176.51
UEC	NG	Ex	SM_vint_old	WH	101.56	101.55
UEC	NG	Ex	SM_vint_NEW	Barbecue	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Cooking	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Drying	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Fireplace	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Other	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Pool	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	Spa	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	SH	0.00	0.00
UEC	NG	Ex	SM_vint_NEW	WH	0.00	0.00
UEC	NG	New	SF_vint_old	Barbecue	14.16	14.16
UEC	NG	New	SF_vint_old	Cooking	27.47	27.47
UEC	NG	New	SF_vint_old	Drying	28.94	28.93
UEC	NG	New	SF_vint_old	Fireplace	10.59	10.59
UEC	NG	New	SF_vint_old	Other	0.00	0.00
UEC	NG	New	SF_vint_old	Pool	138.45	138.44



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Variable	Fuel Type	Vintage	Segment	End Use	2039	2040
UEC	NG	New	SF_vint_old	Spa	93.92	93.91
UEC	NG	New	SF_vint_old	SH	228.88	228.86
UEC	NG	New	SF_vint_old	WH	119.66	119.65
UEC	NG	New	SF_vint_NEW	Barbecue	11.73	11.73
UEC	NG	New	SF_vint_NEW	Cooking	22.71	22.71
UEC	NG	New	SF_vint_NEW	Drying	23.93	23.93
UEC	NG	New	SF_vint_NEW	Fireplace	8.78	8.78
UEC	NG	New	SF_vint_NEW	Other	0.00	0.00
UEC	NG	New	SF_vint_NEW	Pool	114.63	114.62
UEC	NG	New	SF_vint_NEW	Spa	78.01	78.00
UEC	NG	New	SF_vint_NEW	SH	189.26	189.24
UEC	NG	New	SF_vint_NEW	WH	98.95	98.94
UEC	NG	New	MF2_vint_old	Barbecue	14.04	14.04
UEC	NG	New	MF2_vint_old	Cooking	28.21	28.21
UEC	NG	New	MF2_vint_old	Drying	30.09	30.09
UEC	NG	New	MF2_vint_old	Fireplace	6.41	6.41
UEC	NG	New	MF2_vint_old	Other	18.72	18.72
UEC	NG	New	MF2_vint_old	Pool	0.00	0.00
UEC	NG	New	MF2_vint_old	Spa	55.20	55.19
UEC	NG	New	MF2_vint_old	SH	132.33	132.32
UEC	NG	New	MF2_vint_old	WH	108.74	108.73
UEC	NG	New	MF2_vint_NEW	Barbecue	9.97	9.97
UEC	NG	New	MF2_vint_NEW	Cooking	19.88	19.88
UEC	NG	New	MF2_vint_NEW	Drying	21.26	21.26
UEC	NG	New	MF2_vint_NEW	Fireplace	6.41	6.41
UEC	NG	New	MF2_vint_NEW	Other	18.72	18.72
UEC	NG	New	MF2_vint_NEW	Pool	0.00	0.00
UEC	NG	New	MF2_vint_NEW	Spa	55.20	55.19
UEC	NG	New	MF2_vint_NEW	SH	93.25	93.24
UEC	NG	New	MF2_vint_NEW	WH	76.63	76.62
UEC	NG	New	MF3_vint_old	Barbecue	11.72	11.72
UEC	NG	New	MF3_vint_old	Cooking	20.11	20.11

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**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2039	2040
UEC	NG	New	MF3_vint_old	Drying	19.91	19.90
UEC	NG	New	MF3_vint_old	Fireplace	5.15	5.15
UEC	NG	New	MF3_vint_old	Other	41.98	41.98
UEC	NG	New	MF3_vint_old	Pool	0.00	0.00
UEC	NG	New	MF3_vint_old	Spa	44.68	44.67
UEC	NG	New	MF3_vint_old	SH	123.01	123.01
UEC	NG	New	MF3_vint_old	WH	97.90	97.89
UEC	NG	New	MF3_vint_NEW	Barbecue	7.73	7.73
UEC	NG	New	MF3_vint_NEW	Cooking	13.14	13.14
UEC	NG	New	MF3_vint_NEW	Drying	13.17	13.17
UEC	NG	New	MF3_vint_NEW	Fireplace	5.15	5.15
UEC	NG	New	MF3_vint_NEW	Other	41.98	41.98
UEC	NG	New	MF3_vint_NEW	Pool	0.00	0.00
UEC	NG	New	MF3_vint_NEW	Spa	44.68	44.67
UEC	NG	New	MF3_vint_NEW	SH	82.57	82.57
UEC	NG	New	MF3_vint_NEW	WH	67.39	67.39
UEC	NG	New	MM_vint_old	Barbecue	10.16	10.16
UEC	NG	New	MM_vint_old	Cooking	18.57	18.57
UEC	NG	New	MM_vint_old	Drying	18.62	18.62
UEC	NG	New	MM_vint_old	Fireplace	0.00	0.00
UEC	NG	New	MM_vint_old	Other	0.00	0.00
UEC	NG	New	MM_vint_old	Pool	0.00	0.00
UEC	NG	New	MM_vint_old	Spa	0.00	0.00
UEC	NG	New	MM_vint_old	SH	66.38	66.38
UEC	NG	New	MM_vint_old	WH	66.40	66.40
UEC	NG	New	MM_vint_NEW	Barbecue	12.68	12.68
UEC	NG	New	MM_vint_NEW	Cooking	23.60	23.60
UEC	NG	New	MM_vint_NEW	Drying	23.41	23.41
UEC	NG	New	MM_vint_NEW	Fireplace	0.00	0.00
UEC	NG	New	MM_vint_NEW	Other	0.00	0.00
UEC	NG	New	MM_vint_NEW	Pool	0.00	0.00
UEC	NG	New	MM_vint_NEW	Spa	0.00	0.00

**Southern California Gas Company**  
**Residential**  
**Table RES-11 UEC'S**

Variable	Fuel Type	Vintage	Segment	End Use	2039	2040
UEC	NG	New	MM_vint_NEW	SH	84.38	84.38
UEC	NG	New	MM_vint_NEW	WH	84.41	84.40
UEC	NG	New	SM_vint_old	Barbecue	11.72	11.72
UEC	NG	New	SM_vint_old	Cooking	22.16	22.16
UEC	NG	New	SM_vint_old	Drying	24.22	24.21
UEC	NG	New	SM_vint_old	Fireplace	0.00	0.00
UEC	NG	New	SM_vint_old	Other	0.00	0.00
UEC	NG	New	SM_vint_old	Pool	0.00	0.00
UEC	NG	New	SM_vint_old	Spa	0.00	0.00
UEC	NG	New	SM_vint_old	SH	176.53	176.51
UEC	NG	New	SM_vint_old	WH	101.56	101.55
UEC	NG	New	SM_vint_NEW	Barbecue	0.00	0.00
UEC	NG	New	SM_vint_NEW	Cooking	0.00	0.00
UEC	NG	New	SM_vint_NEW	Drying	0.00	0.00
UEC	NG	New	SM_vint_NEW	Fireplace	0.00	0.00
UEC	NG	New	SM_vint_NEW	Other	0.00	0.00
UEC	NG	New	SM_vint_NEW	Pool	0.00	0.00
UEC	NG	New	SM_vint_NEW	Spa	0.00	0.00
UEC	NG	New	SM_vint_NEW	SH	0.00	0.00
UEC	NG	New	SM_vint_NEW	WH	0.00	0.00

Southern California Gas Company  
Nominal and Real Gas Rates Forecast (\$/therm)  
Table Res-12

	Real (Commodity + Transportation)
2023 \$	1.94
2024 \$	2.06
2025 \$	2.11
2026 \$	2.38
2027 \$	2.44
2028 \$	2.52
2029 \$	2.54
2030 \$	2.59
2031 \$	2.56
2032 \$	2.55
2033 \$	2.57
2034 \$	2.58
2035 \$	2.56
2036 \$	2.56
2037 \$	2.58
2038 \$	2.59
2039 \$	2.58
2040 \$	2.59

## **CORE COMMERCIAL**

## I. Core Commercial End-Use Model Description

### Introduction:

SoCalGas used the Navigator model to generate annual gas demand forecasts for the commercial portion of the G-10 market. The core commercial forecast consists of the commercial portion of G-10 load plus gas AC and gas engine load. To forecast the commercial portion of G-10, SoCalGas used the Navigator parametric end use model. The model's market segmentation description and end-use modeling framework are presented in the previous section of the SoCalGas workpapers.

The market segmentation groups for the commercial portion of the G-10 sector are identified by the premise code classification found in the company billing files. The SoCalGas G-10 segmentation contains the following nine types:

- office
- restaurant
- retail
- laundry
- education (school + college)
- health
- lodging
- agriculture
- other/miscellaneous

For the new model, the segments for school and college were combined into "education." The segments for warehouse, government, construction, and TCU were combined into "other".

There are two vintages. These are "old" and "new". The classification termed old describes existing customers (established prior to the year 2021) whereas "new" describes the new commercial portion of the G-10 meter hookups set up in year 2021 and beyond.

The commercial portion of the G-10 model identifies eleven end-uses that are the primary drivers of natural gas demand. These are:

- space heating
- water heating
- drying
- engine
- AC compressor
- cooking
- cooktop
- fryer

griddle  
other cooking  
other/miscellaneous

A set of post-model adjustments were applied to the model's annual demand forecast. The first adjustment calibrates to the recorded 2023 weather-adjusted demand, or the "base" year demand. Next, the annual Navigator forecast was parceled out to a series of monthly forecasts by applying weights based on the customer's predicted monthly usage share in total annual consumption. The shares were applied to annual totals to derive the stream of monthly forecasts which are conditional on the particular weather design specification for the entire year. An adjustment to the forecast offsets the throughput by the energy efficiency (EE) savings. The forecast was also reduced by the AAFS Scenario 3 Programmatic Savings. The AAFS3 Programmatic was obtained from the CEC's "California Energy Demand Forecast", IEPR 2023.

The forecast was adjusted further for anticipated climate change. To account for anticipated weather that is "less cold" and more variable, the average year weather design was reduced by seven fewer heating degree days each year over the forecast period for SoCalGas.

The commercial portion of the G-10 load forecast was also modified to account for SGIP, core to noncore transfers and City of Vernon migration. The core to noncore transfer and the City of Vernon migration subtracted away from the commercial portion of the G-10 load, whereas the SGIP forecast added to it.

The core commercial forecast is derived from all adjustments made to the commercial portion of the G-10 forecast plus the addition of the gas AC and gas engine load.

Tables 1-4 in the following section illustrate the commercial portion of the G-10 monthly forecast under each of the weather design scenarios (average year, cold year, hot year and base year). Table 5 shows the energy efficiency and fuel substitution forecast used to prepare the out of model adjustment and the final forecast. Table 6 and 7 contain the gas AC and gas engine forecasts. Tables 8-10 contain the forecasts for core to noncore migration, City of Vernon migration and the SGIP forecast.

#### Data Sources:

The data used to populate the Navigator model template and used to generate the unadjusted base forecast includes historical 2023 consumption and customer counts; price elasticities; historical meter counts (total and by vintage type), use per meter (total and by vintage type), saturation, fuel shares and unit energy consumption (UEC) values. The historical 2023 data is in Table 11.

Tables 12-16 show accounts, units, saturations, fuel shares and UEC's. Table 17 contains the nominal and real gas rates forecast for this market.



Southern California Gas Company  
Commercial Portion of G-10      Table C Comm-1  
Average Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	8,855	8,307	7,502	6,821	5,777	5,250	5,110	5,106	5,145	5,547	7,013	9,138	79,571
2024	8,448	7,927	7,161	6,516	5,521	5,020	4,887	4,883	4,921	5,303	6,697	8,718	76,001
2025	8,270	7,762	7,015	6,387	5,415	4,926	4,796	4,792	4,829	5,202	6,563	8,534	74,490
2026	8,027	7,535	6,812	6,207	5,265	4,792	4,666	4,663	4,698	5,060	6,376	8,282	72,383
2027	7,881	7,400	6,692	6,102	5,179	4,716	4,593	4,589	4,624	4,978	6,267	8,131	71,152
2028	7,720	7,250	6,560	5,986	5,083	4,631	4,511	4,507	4,541	4,887	6,145	7,965	69,788
2029	7,586	7,126	6,450	5,890	5,004	4,562	4,443	4,440	4,473	4,812	6,045	7,826	68,657
2030	7,475	7,023	6,359	5,811	4,940	4,505	4,389	4,386	4,418	4,752	5,962	7,710	67,730
2031	7,406	6,960	6,304	5,765	4,903	4,474	4,359	4,355	4,388	4,717	5,913	7,638	67,181
2032	7,328	6,888	6,242	5,711	4,860	4,437	4,324	4,320	4,352	4,677	5,857	7,558	66,555
2033	7,243	6,809	6,172	5,652	4,812	4,395	4,283	4,280	4,311	4,632	5,794	7,469	65,854
2034	7,038	6,619	6,002	5,501	4,686	4,283	4,174	4,171	4,201	4,512	5,637	7,258	64,083
2035	6,972	6,558	5,949	5,456	4,650	4,252	4,145	4,142	4,171	4,478	5,590	7,189	63,552
2036	6,901	6,493	5,892	5,407	4,611	4,218	4,112	4,109	4,139	4,442	5,538	7,116	62,979
2037	6,827	6,424	5,832	5,356	4,570	4,182	4,078	4,075	4,104	4,403	5,484	7,039	62,373
2038	6,759	6,362	5,778	5,309	4,532	4,150	4,046	4,044	4,072	4,368	5,435	6,968	61,823
2039	6,777	6,380	5,795	5,328	4,550	4,168	4,065	4,062	4,090	4,386	5,454	6,986	62,041
2040	6,801	6,403	5,818	5,352	4,572	4,189	4,086	4,083	4,111	4,408	5,476	7,010	62,308

Southern California Gas Company  
Commercial Portion of G-10      Table C Comm-2  
Cold Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	9,527	8,881	7,937	7,070	5,894	5,274	5,115	5,110	5,156	5,617	7,330	9,851	82,763
2024	9,112	8,494	7,591	6,762	5,637	5,044	4,892	4,887	4,931	5,372	7,010	9,421	79,152
2025	8,926	8,322	7,439	6,630	5,529	4,949	4,801	4,796	4,839	5,271	6,872	9,229	77,602
2026	8,674	8,088	7,231	6,447	5,378	4,815	4,671	4,666	4,708	5,127	6,681	8,968	75,455
2027	8,520	7,946	7,106	6,339	5,290	4,739	4,598	4,593	4,634	5,045	6,568	8,808	74,185
2028	8,351	7,790	6,968	6,219	5,193	4,654	4,515	4,511	4,551	4,953	6,443	8,633	72,782
2029	8,209	7,658	6,853	6,120	5,112	4,584	4,448	4,444	4,483	4,877	6,339	8,486	71,614
2030	8,090	7,549	6,757	6,039	5,047	4,527	4,394	4,389	4,428	4,816	6,252	8,362	70,649
2031	8,013	7,479	6,697	5,989	5,008	4,495	4,363	4,359	4,397	4,781	6,199	8,282	70,062
2032	7,927	7,401	6,630	5,933	4,964	4,458	4,328	4,324	4,362	4,740	6,139	8,193	69,400
2033	7,834	7,315	6,555	5,871	4,915	4,416	4,288	4,284	4,321	4,694	6,073	8,097	68,663
2034	7,622	7,118	6,380	5,717	4,788	4,304	4,179	4,174	4,211	4,573	5,913	7,877	66,856
2035	7,549	7,051	6,323	5,669	4,750	4,272	4,149	4,145	4,181	4,539	5,862	7,800	66,290
2036	7,471	6,980	6,261	5,618	4,710	4,239	4,116	4,113	4,148	4,501	5,807	7,719	65,682
2037	7,389	6,905	6,196	5,564	4,667	4,202	4,082	4,078	4,113	4,462	5,749	7,635	65,042
2038	7,314	6,836	6,137	5,515	4,628	4,170	4,051	4,047	4,081	4,426	5,697	7,557	64,458
2039	7,325	6,848	6,150	5,531	4,645	4,188	4,069	4,065	4,099	4,443	5,712	7,567	64,643
2040	7,342	6,866	6,168	5,552	4,666	4,209	4,090	4,086	4,120	4,464	5,732	7,584	64,876

Southern California Gas Company  
Commercial Portion of G-10      Table C Comm-3  
Hot Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	8,183	7,732	7,067	6,572	5,660	5,226	5,105	5,102	5,135	5,477	6,696	8,425	76,379
2024	7,784	7,359	6,731	6,270	5,406	4,996	4,882	4,879	4,910	5,233	6,384	8,014	72,849
2025	7,615	7,201	6,591	6,145	5,301	4,902	4,791	4,788	4,818	5,134	6,254	7,839	71,379
2026	7,380	6,982	6,393	5,968	5,153	4,769	4,662	4,659	4,688	4,992	6,071	7,596	69,311
2027	7,242	6,853	6,279	5,866	5,068	4,693	4,588	4,586	4,614	4,911	5,965	7,454	68,119
2028	7,090	6,711	6,152	5,753	4,973	4,609	4,506	4,504	4,531	4,821	5,848	7,296	66,793
2029	6,964	6,594	6,047	5,659	4,896	4,539	4,439	4,436	4,463	4,747	5,751	7,166	65,701
2030	6,860	6,497	5,961	5,583	4,833	4,483	4,385	4,382	4,408	4,687	5,672	7,059	64,811
2031	6,799	6,441	5,911	5,540	4,797	4,452	4,354	4,352	4,378	4,654	5,627	6,995	64,299
2032	6,729	6,376	5,854	5,490	4,756	4,416	4,319	4,317	4,342	4,615	5,574	6,923	63,710
2033	6,651	6,304	5,789	5,433	4,709	4,374	4,279	4,277	4,302	4,570	5,515	6,842	63,045
2034	6,454	6,119	5,624	5,285	4,584	4,262	4,170	4,168	4,192	4,451	5,362	6,639	61,309
2035	6,395	6,065	5,576	5,242	4,550	4,231	4,140	4,138	4,162	4,418	5,318	6,578	60,814
2036	6,332	6,006	5,524	5,196	4,512	4,198	4,108	4,106	4,130	4,382	5,270	6,512	60,276
2037	6,265	5,944	5,468	5,148	4,472	4,162	4,074	4,071	4,095	4,344	5,219	6,443	59,704
2038	6,204	5,887	5,418	5,104	4,435	4,130	4,042	4,040	4,063	4,310	5,173	6,380	59,188
2039	6,229	5,911	5,441	5,126	4,455	4,148	4,061	4,058	4,081	4,329	5,195	6,406	59,440
2040	6,260	5,940	5,468	5,151	4,478	4,170	4,082	4,080	4,103	4,351	5,221	6,437	59,740

Southern California Gas Company  
Commercial Portion of G-10      Table C Comm-4  
Base Year Forecast (Mdth)

YEAR	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	5,267	4,927	5,267	5,097	5,267	5,097	5,267	5,267	5,097	5,267	5,097	5,267	62,183
2024	4,993	4,671	4,997	4,837	5,002	4,842	5,004	5,004	4,842	5,003	4,837	4,993	59,027
2025	4,900	4,583	4,904	4,747	4,909	4,752	4,911	4,911	4,752	4,910	4,746	4,899	57,923
2026	4,755	4,448	4,759	4,607	4,764	4,612	4,767	4,767	4,612	4,765	4,606	4,754	56,215
2027	4,683	4,381	4,688	4,538	4,693	4,543	4,696	4,696	4,544	4,694	4,537	4,682	55,376
2028	4,600	4,303	4,605	4,458	4,611	4,463	4,613	4,613	4,463	4,611	4,457	4,599	54,396
2029	4,536	4,243	4,541	4,396	4,547	4,401	4,549	4,549	4,402	4,548	4,395	4,535	53,643
2030	4,489	4,199	4,494	4,350	4,500	4,356	4,502	4,502	4,356	4,501	4,349	4,488	53,085
2031	4,473	4,184	4,478	4,335	4,484	4,341	4,487	4,487	4,341	4,485	4,334	4,472	52,899
2032	4,450	4,162	4,455	4,313	4,461	4,319	4,464	4,464	4,319	4,462	4,312	4,448	52,629
2033	4,420	4,134	4,425	4,284	4,432	4,290	4,434	4,434	4,291	4,433	4,283	4,418	52,278
2034	4,298	4,021	4,304	4,167	4,311	4,173	4,314	4,314	4,174	4,312	4,166	4,297	50,849
2035	4,282	4,005	4,287	4,151	4,294	4,157	4,297	4,297	4,158	4,295	4,150	4,280	50,655
2036	4,261	3,986	4,267	4,131	4,274	4,138	4,277	4,277	4,138	4,275	4,130	4,260	50,412
2037	4,237	3,963	4,243	4,108	4,250	4,115	4,253	4,253	4,115	4,251	4,107	4,235	50,129
2038	4,217	3,945	4,223	4,089	4,231	4,096	4,234	4,234	4,096	4,232	4,088	4,215	49,896
2039	4,261	3,986	4,268	4,132	4,276	4,139	4,279	4,279	4,140	4,277	4,131	4,260	50,426
2040	4,310	4,031	4,316	4,179	4,324	4,186	4,327	4,327	4,187	4,325	4,178	4,308	50,998

Southern California Gas Company  
 Core Commercial Market Out of Model Adjustments  
 Table C Comm-5 Energy Efficiency and Fuel Substitution (Mdth

YEAR	Energy Efficiency	Fuel Substitution
2023	-	-
2024	746	273
2025	1,557	569
2026	2,080	850
2027	2,615	1,150
2028	3,115	1,465
2029	3,589	1,795
2030	4,050	1,909
2031	4,491	1,946
2032	4,900	1,985
2033	5,299	2,024
2034	5,685	2,062
2035	6,059	2,095
2036	6,432	2,116
2037	6,805	2,128
2038	7,178	2,131
2039	6,806	2,129
2040	6,368	2,126

Southern California Gas Company  
Gas AC Forecast  
Table C Comm-6

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2023	0.66	0.52	0.61	0.69	0.92	1.34	1.07	1.76	1.35	1.14	1.24	0.87	12.16
2024	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2025	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2026	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2027	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2028	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2029	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2030	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2031	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2032	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2033	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2034	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2035	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2036	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2037	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2038	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2039	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2040	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2041	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25
2040	0.55	0.79	0.36	0.78	1.06	1.35	1.51	1.73	1.56	1.44	1.24	0.89	13.25

Southern California Gas Company  
 Gas Engine Forecast  
 Table C Comm-7

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2023	94	41	49	86	118	142	181	187	160	134	105	73	1,368
2024	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2025	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2026	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2027	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2028	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2029	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2030	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2031	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2032	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2033	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2034	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2035	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2036	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2037	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2038	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2039	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2040	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2041	86	82	98	133	171	223	257	255	217	169	117	79	1,887
2040	86	82	98	133	171	223	257	255	217	169	117	79	1,887

Southern California Gas Company  
 Core to Noncore Migration (Mdth)  
 Table C Comm-8

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
2024	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2025	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2026	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2027	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2028	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2029	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2030	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2031	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2032	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2033	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2034	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2035	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2036	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2037	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2038	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2039	25	23	21	19	16	15	14	14	14	15	16	20	26	224
2040	25	23	21	19	16	15	14	14	14	15	16	20	26	224



Southern California Gas Company  
 Vernon Migration (Mdth)  
 Table C Comm-9

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2024	1	1	1	1	1	1	1	1	1	1	1	1	9
2025	2	2	2	2	2	1	1	1	1	1	1	2	18
2026	3	3	3	3	2	2	2	2	2	2	2	2	27
2027	4	4	3	3	3	3	2	2	2	2	3	3	36
2028	5	5	4	4	4	3	3	3	3	3	3	4	45
2029	6	6	5	5	5	4	4	3	3	4	4	5	54
2030	7	7	6	6	5	5	4	4	4	4	4	6	63
2031	8	8	7	7	6	5	5	5	5	5	5	6	72
2032	9	8	8	8	7	6	5	5	5	5	6	7	81
2033	10	9	9	9	8	7	6	6	6	6	6	8	90
2034	11	10	9	9	9	7	7	6	6	6	7	9	99
2035	12	11	10	10	9	8	7	7	7	7	8	10	108
2036	13	12	11	11	10	9	8	8	8	8	8	10	118
2037	14	13	12	12	11	9	8	8	8	8	9	11	127
2038	15	14	13	13	12	10	9	9	9	9	9	12	136
2039	16	15	14	14	12	11	10	9	9	9	10	13	145
2040	17	16	14	14	13	11	10	10	10	10	11	14	154

Southern California Gas Company  
 SGIP (Mdth)  
 Table C Comm 10

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2024	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.13
2025	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.26
2026	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.39
2027	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.52
2028	0.07	0.07	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.05	0.06	0.65
2029	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.78
2030	0.10	0.09	0.09	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.08	0.91
2031	0.12	0.11	0.10	0.09	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.09	1.04
2032	0.13	0.12	0.11	0.10	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.10	1.17
2033	0.14	0.14	0.12	0.11	0.09	0.09	0.09	0.08	0.08	0.08	0.09	0.11	1.30
2034	0.16	0.15	0.13	0.12	0.10	0.09	0.09	0.09	0.09	0.09	0.10	0.13	1.43
2035	0.17	0.16	0.15	0.13	0.11	0.10	0.10	0.10	0.10	0.10	0.11	0.14	1.56
2036	0.19	0.18	0.16	0.14	0.12	0.11	0.11	0.11	0.11	0.11	0.12	0.15	1.69
2037	0.20	0.19	0.17	0.16	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.16	1.82
2038	0.22	0.20	0.18	0.17	0.14	0.13	0.13	0.13	0.13	0.13	0.14	0.17	1.95
2039	0.23	0.22	0.20	0.18	0.15	0.14	0.13	0.13	0.13	0.13	0.15	0.18	2.08
2040	0.25	0.23	0.21	0.19	0.16	0.15	0.14	0.14	0.14	0.14	0.15	0.19	2.21

Southern California Gas Company  
Historical Base Year (2023) Data  
Table C Comm-11

Segment	2023 Therm Sales	2023 Meter Count	2023 Meter Count, Existing/Old customers	2023 Meter Count New Customers	Avg Use Per Meter Existing Customers	Avg Use Per Meter New Customers	Price Elasticity of Demand
Office	79,164,742	44,479	43,997	482	1,762	3,393	-0.14531
Restaurant	227,857,518	42,458	41,246	1,212	5,409	3,941	-0.04060
Retail	58,581,639	23,422	22,976	446	2,505	2,281	-0.05117
Laundry	49,186,026	3,452	3,434	18	14,252	13,541	-0.03455
Education	68,674,007	9,353	9,280	73	7,362	4,838	-0.17509
Health	57,283,832	6,252	6,191	61	9,075	18,069	-0.02334
Lodging	56,314,724	4,697	4,633	64	11,845	22,440	-0.03985
Misc	155,209,224	55,590	55,090	500	2,759	6,471	-0.08681
Agriculture	43,440,120	1,245	1,229	16	35,145	15,431	-0.19548
Total	795,711,832	190,948					

Note: New Customers are total for 2021-2023

**Southern California Gas Company  
G-10 Meter Forecast  
Table C Comm-12**

Rate			2023	2024	2025	2026	2027	2028	2029	2030	2031
Variable	Class	Segment ID									
ACCOUNTS	G-10	Agriculture_post2020	16	18	20	22	24	27	29	31	33
ACCOUNTS	G-10	Agriculture_pre2021	1,229	1,221	1,212	1,204	1,196	1,187	1,179	1,171	1,162
ACCOUNTS	G-10	Health_post2020	61	68	76	83	91	98	105	113	120
ACCOUNTS	G-10	Health_pre2021	6,191	6,153	6,115	6,077	6,038	6,000	5,962	5,924	5,886
ACCOUNTS	G-10	Laundry_post2020	18	21	24	26	29	32	35	37	40
ACCOUNTS	G-10	Laundry_pre2021	3,434	3,404	3,374	3,345	3,315	3,285	3,255	3,225	3,195
ACCOUNTS	G-10	Lodging_post2020	64	71	77	84	90	97	104	110	117
ACCOUNTS	G-10	Lodging_pre2021	4,633	4,622	4,611	4,600	4,590	4,579	4,568	4,557	4,546
ACCOUNTS	G-10	Misc_post2020	500	1,765	1,888	2,011	2,134	2,257	2,380	2,503	2,626
ACCOUNTS	G-10	Misc_pre2021	55,090	62,068	62,179	62,289	62,400	62,511	62,622	62,733	62,844
ACCOUNTS	G-10	Office_post2020	482	534	586	639	691	743	795	847	900
ACCOUNTS	G-10	Office_pre2021	43,997	44,094	44,192	44,289	44,386	44,484	44,581	44,678	44,776
ACCOUNTS	G-10	Restaurant_post2020	1,212	176	268	360	452	544	636	728	820
ACCOUNTS	G-10	Restaurant_pre2021	41,246	34,285	34,070	33,855	33,641	33,426	33,211	32,996	32,781
ACCOUNTS	G-10	Retail_post2020	446	471	511	550	590	630	670	709	749
ACCOUNTS	G-10	Retail_pre2021	22,976	22,813	22,770	22,728	22,685	22,642	22,599	22,557	22,514
ACCOUNTS	G-10	EDUCATION_post2020	73	82	92	101	111	120	130	139	149
ACCOUNTS	G-10	EDUCATION_pre2021	9,280	9,262	9,243	9,225	9,206	9,188	9,169	9,151	9,132

Rate			2032	2033	2034	2035	2036	2037	2038	2039	2040
Variable	Class	Segment ID									
ACCOUNTS	G-10	Agriculture_post2020	35	37	39	41	43	45	48	50	52
ACCOUNTS	G-10	Agriculture_pre2021	1,154	1,146	1,137	1,129	1,121	1,112	1,104	1,096	1,087
ACCOUNTS	G-10	Health_post2020	127	135	142	150	157	164	172	179	186
ACCOUNTS	G-10	Health_pre2021	5,848	5,809	5,771	5,733	5,695	5,657	5,619	5,580	5,542
ACCOUNTS	G-10	Laundry_post2020	43	46	48	51	54	57	59	62	65
ACCOUNTS	G-10	Laundry_pre2021	3,166	3,136	3,106	3,076	3,046	3,017	2,987	2,957	2,927
ACCOUNTS	G-10	Lodging_post2020	123	130	137	143	150	156	163	170	176
ACCOUNTS	G-10	Lodging_pre2021	4,535	4,524	4,514	4,503	4,492	4,481	4,470	4,459	4,448
ACCOUNTS	G-10	Misc_post2020	2,750	2,873	2,996	3,119	3,242	3,365	3,488	3,611	3,734
ACCOUNTS	G-10	Misc_pre2021	62,954	63,065	63,176	63,287	63,398	63,508	63,619	63,730	63,841
ACCOUNTS	G-10	Office_post2020	952	1,004	1,056	1,108	1,161	1,213	1,265	1,317	1,369
ACCOUNTS	G-10	Office_pre2021	44,873	44,970	45,068	45,165	45,262	45,359	45,457	45,554	45,651
ACCOUNTS	G-10	Restaurant_post2020	912	1,004	1,096	1,188	1,280	1,372	1,464	1,556	1,648
ACCOUNTS	G-10	Restaurant_pre2021	32,566	32,351	32,137	31,922	31,707	31,492	31,277	31,062	30,847
ACCOUNTS	G-10	Retail_post2020	789	829	869	908	948	988	1,028	1,067	1,107
ACCOUNTS	G-10	Retail_pre2021	22,471	22,428	22,385	22,343	22,300	22,257	22,214	22,172	22,129
ACCOUNTS	G-10	EDUCATION_post2020	158	168	177	187	196	206	215	225	234
ACCOUNTS	G-10	EDUCATION_pre2021	9,114	9,095	9,077	9,058	9,040	9,021	9,003	8,984	8,966

**Southern California Gas Company**  
**G-10 Units, 2023**  
**Table C Comm-13**

<b>Variable</b>	<b>Region</b>	<b>Segment ID</b>	<b>G-10</b>
UNITS	SoCal	Agriculture_post2020	16
UNITS	SoCal	Agriculture_pre2021	1,229
UNITS	SoCal	Health_post2020	61
UNITS	SoCal	Health_pre2021	6,191
UNITS	SoCal	Laundry_post2020	18
UNITS	SoCal	Laundry_pre2021	3,434
UNITS	SoCal	Lodging_post2020	64
UNITS	SoCal	Lodging_pre2021	4,633
UNITS	SoCal	Misc_post2020	500
UNITS	SoCal	Misc_pre2021	55,090
UNITS	SoCal	Office_post2020	482
UNITS	SoCal	Office_pre2021	43,997
UNITS	SoCal	Restaurant_post2020	1,212
UNITS	SoCal	Restaurant_pre2021	41,246
UNITS	SoCal	Retail_post2020	446
UNITS	SoCal	Retail_pre2021	22,976
UNITS	SoCal	EDUCATION_post2020	73
UNITS	SoCal	EDUCATION_pre2021	9,280

**Southern California Gas Company**

**G-10 Saturations**

**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	Ex	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_post2020	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	Ex	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	Agriculture_post2020	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	Ex	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	Ex	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	Agriculture_pre2021	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	Ex	Health_post2020	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	Ex	Health_post2020	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Health_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Health_post2020	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Health_post2020	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	Ex	Health_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Health_pre2021	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	Ex	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	Ex Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Health_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex Health_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Health_pre2021	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex Health_pre2021	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	Ex Health_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex Laundry_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Laundry_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex Laundry_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Lodging_post2020	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	Ex Lodging_post2020	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Lodging_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	Ex Lodging_post2020	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_post2020	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Lodging_post2020	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_post2020	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex Lodging_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Lodging_pre2021	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	Ex Lodging_pre2021	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Lodging_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Lodging_pre2021	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_pre2021	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Lodging_pre2021	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Lodging_pre2021	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex Lodging_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Misc_post2020	AC_Compressor	0.34	0.30	0.29	0.29	0.31	0.32	0.33	0.34	0.35	0.36
SATURATION	SoCal	Ex Misc_post2020	Cook_top	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	Ex Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Misc_post2020	Engine	0.18	0.20	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17
SATURATION	SoCal	Ex Misc_post2020	Fryer	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	Ex Misc_post2020	Griddle	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	Ex Misc_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Misc_post2020	Other_Cooking	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	Ex Misc_post2020	Space_Heat	0.60	0.59	0.58	0.58	0.58	0.59	0.60	0.60	0.61	0.62
SATURATION	SoCal	Ex Misc_post2020	Water_Heat	0.74	0.75	0.75	0.76	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	Ex Misc_pre2021	AC_Compressor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.51	0.51
SATURATION	SoCal	Ex Misc_pre2021	Cook_top	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Misc_pre2021	Engine	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Misc_pre2021	Fryer	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex Misc_pre2021	Griddle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex Misc_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



**Southern California Gas Company**

**G-10 Saturations**

**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	Ex Misc_pre2021	Other_Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex Misc_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SATURATION	SoCal	Ex Misc_pre2021	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
SATURATION	SoCal	Ex Office_post2020	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	Ex Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex Office_post2020	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	Ex Office_pre2021	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	Ex Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex Office_pre2021	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	Ex Restaurant_post2020	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex Restaurant_post2020	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	Ex Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Restaurant_post2020	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	Ex Restaurant_post2020	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex Restaurant_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Restaurant_post2020	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex Restaurant_post2020	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex Restaurant_post2020	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	Ex	Restaurant_pre2021	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex	Restaurant_pre2021	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	Ex	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Restaurant_pre2021	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	Ex	Restaurant_pre2021	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex	Restaurant_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Restaurant_pre2021	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex	Restaurant_pre2021	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Restaurant_pre2021	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SATURATION	SoCal	Ex	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	Ex	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	Ex	Retail_post2020	Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	Ex	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	Ex	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	Ex	Retail_pre2021	Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	Ex	EDUCATION_post2020	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	Ex	EDUCATION_post2020	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	Ex	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_post2020	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	EDUCATION_post2020	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Space_Heat	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.77
SATURATION	SoCal	Ex	EDUCATION_post2020	Water_Heat	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SATURATION	SoCal	Ex	EDUCATION_pre2021	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	Ex	EDUCATION_pre2021	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Space_Heat	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SATURATION	SoCal	Ex	EDUCATION_pre2021	Water_Heat	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SATURATION	SoCal	New	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_post2020	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	New	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Agriculture_post2020	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	New	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_pre2021	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	New	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	New	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Agriculture_pre2021	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	New	Health_post2020	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	New	Health_post2020	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_post2020	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Health_post2020	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	New	Health_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Health_pre2021	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	New	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Health_pre2021	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	New	Health_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	New	Laundry_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Laundry_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Laundry_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_post2020	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	New	Lodging_post2020	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_post2020	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_post2020	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Lodging_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_pre2021	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	New	Lodging_pre2021	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_pre2021	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_pre2021	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Lodging_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Misc_post2020	AC_Compressor	0.34	0.30	0.29	0.29	0.31	0.32	0.33	0.34	0.35	0.36

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	New	Misc_post2020	Cook_top	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	New	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_post2020	Engine	0.18	0.20	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17
SATURATION	SoCal	New	Misc_post2020	Fryer	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	New	Misc_post2020	Griddle	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	New	Misc_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Misc_post2020	Other_Cooking	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06
SATURATION	SoCal	New	Misc_post2020	Space_Heat	0.60	0.59	0.58	0.58	0.58	0.59	0.60	0.60	0.61	0.62
SATURATION	SoCal	New	Misc_post2020	Water_Heat	0.74	0.75	0.75	0.76	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	New	Misc_pre2021	AC_Compressor	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.51	0.51
SATURATION	SoCal	New	Misc_pre2021	Cook_top	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_pre2021	Engine	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Misc_pre2021	Fryer	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Griddle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Misc_pre2021	Other_Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SATURATION	SoCal	New	Misc_pre2021	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
SATURATION	SoCal	New	Office_post2020	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	New	Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Office_post2020	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	New	Office_pre2021	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	New	Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	New	Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Office_pre2021	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	New	Restaurant_post2020	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Restaurant_post2020	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	New	Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_post2020	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	New	Restaurant_post2020	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	Restaurant_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Restaurant_post2020	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Restaurant_post2020	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Restaurant_post2020	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SATURATION	SoCal	New	Restaurant_pre2021	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Restaurant_pre2021	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	New	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_pre2021	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	New	Restaurant_pre2021	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	Restaurant_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Restaurant_pre2021	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Restaurant_pre2021	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Restaurant_pre2021	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SATURATION	SoCal	New	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	New	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing	Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	New	Retail_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	New	Retail_post2020	Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	New	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	New	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	New	Retail_pre2021	Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	New	EDUCATION_post2020	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	New	EDUCATION_post2020	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_post2020	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	EDUCATION_post2020	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Space_Heat	0.79	0.79	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.77
SATURATION	SoCal	New	EDUCATION_post2020	Water_Heat	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SATURATION	SoCal	New	EDUCATION_pre2021	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	New	EDUCATION_pre2021	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_pre2021	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	EDUCATION_pre2021	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Space_Heat	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91



**Southern California Gas Company**  
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Variable	Region	Existing Segment ID	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
SATURATION	SoCal	New EDUCATION_pre2021	Water_Heat	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92

**Southern California Gas Company**

**G-10 Saturations**

**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_post2020	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	Ex	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	Agriculture_post2020	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	Ex	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	Ex	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Agriculture_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	Agriculture_pre2021	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	Ex	Health_post2020	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	Ex	Health_post2020	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Health_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Health_post2020	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Health_post2020	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_post2020	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	Ex	Health_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Health_pre2021	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	Ex	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10

**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Health_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Health_pre2021	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	Ex	Health_pre2021	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	Ex	Health_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	Laundry_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Laundry_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	Ex	Laundry_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Lodging_post2020	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	Ex	Lodging_post2020	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Lodging_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	Lodging_post2020	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_post2020	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Lodging_post2020	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_post2020	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex	Lodging_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Lodging_pre2021	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	Ex	Lodging_pre2021	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Lodging_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Lodging_pre2021	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_pre2021	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Lodging_pre2021	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Lodging_pre2021	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex	Lodging_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Misc_post2020	AC_Compressor	0.37	0.37	0.38	0.38	0.38	0.38	0.38
SATURATION	SoCal	Ex	Misc_post2020	Cook_top	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	Ex	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Misc_post2020	Engine	0.17	0.17	0.16	0.16	0.16	0.16	0.16
SATURATION	SoCal	Ex	Misc_post2020	Fryer	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	Ex	Misc_post2020	Griddle	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	Ex	Misc_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Misc_post2020	Other_Cooking	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	Ex	Misc_post2020	Space_Heat	0.62	0.63	0.63	0.63	0.63	0.63	0.63
SATURATION	SoCal	Ex	Misc_post2020	Water_Heat	0.75	0.74	0.74	0.74	0.74	0.74	0.74
SATURATION	SoCal	Ex	Misc_pre2021	AC_Compressor	0.51	0.51	0.51	0.51	0.51	0.51	0.51
SATURATION	SoCal	Ex	Misc_pre2021	Cook_top	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Misc_pre2021	Engine	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex	Misc_pre2021	Fryer	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex	Misc_pre2021	Griddle	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex	Misc_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex Misc_pre2021	Other_Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	Ex Misc_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SATURATION	SoCal	Ex Misc_pre2021	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
SATURATION	SoCal	Ex Office_post2020	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	Ex Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_post2020	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex Office_post2020	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	Ex Office_pre2021	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	Ex Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	Ex Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Office_pre2021	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex Office_pre2021	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	Ex Restaurant_post2020	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex Restaurant_post2020	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	Ex Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex Restaurant_post2020	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	Ex Restaurant_post2020	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex Restaurant_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex Restaurant_post2020	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex Restaurant_post2020	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex Restaurant_post2020	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96

**Southern California Gas Company**

**G-10 Saturations**

**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	Restaurant_pre2021 AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	Ex	Restaurant_pre2021 Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	Ex	Restaurant_pre2021 Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Restaurant_pre2021 Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Restaurant_pre2021 Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Restaurant_pre2021 Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	Ex	Restaurant_pre2021 Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	Ex	Restaurant_pre2021 Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Restaurant_pre2021 Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	Ex	Restaurant_pre2021 Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	Ex	Restaurant_pre2021 Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SATURATION	SoCal	Ex	Retail_post2020 AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	Ex	Retail_post2020 Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Retail_post2020 Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_post2020 Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	Ex	Retail_post2020 Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	Ex	Retail_pre2021 AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	Ex	Retail_pre2021 Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	Retail_pre2021 Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	Retail_pre2021 Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	Ex	Retail_pre2021 Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	Ex	EDUCATION_post2020 AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	Ex	EDUCATION_post2020 Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020 Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**

**G-10 Saturations**

**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	Ex	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_post2020	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	EDUCATION_post2020	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_post2020	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	Ex	EDUCATION_post2020	Water_Heat	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SATURATION	SoCal	Ex	EDUCATION_pre2021	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	Ex	EDUCATION_pre2021	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	Ex	EDUCATION_pre2021	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	Ex	EDUCATION_pre2021	Space_Heat	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SATURATION	SoCal	Ex	EDUCATION_pre2021	Water_Heat	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SATURATION	SoCal	New	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_post2020	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	New	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Agriculture_post2020	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	New	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_pre2021	Engine	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
SATURATION	SoCal	New	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing	Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Agriculture_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Agriculture_pre2021	Water_Heat	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
SATURATION	SoCal	New	Health_post2020	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	New	Health_post2020	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_post2020	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Health_post2020	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_post2020	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	New	Health_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Health_pre2021	AC_Compressor	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SATURATION	SoCal	New	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Health_pre2021	Other_Cooking	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SATURATION	SoCal	New	Health_pre2021	Space_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SATURATION	SoCal	New	Health_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



**Southern California Gas Company**  
**G-10 Saturations**  
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Variable	Region	Existing	Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	Laundry_post2020	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Laundry_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Drying	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Laundry_pre2021	Space_Heat	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SATURATION	SoCal	New	Laundry_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_post2020	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	New	Lodging_post2020	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_post2020	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_post2020	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_post2020	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_post2020	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Lodging_post2020	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_pre2021	AC_Compressor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
SATURATION	SoCal	New	Lodging_pre2021	Cook_top	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_pre2021	Drying	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Lodging_pre2021	Fryer	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Griddle	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Lodging_pre2021	Other_Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Lodging_pre2021	Space_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Lodging_pre2021	Water_Heat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Misc_post2020	AC_Compressor	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38

**Southern California Gas Company**

**G-10 Saturations**

**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	Misc_post2020	Cook_top	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	New	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_post2020	Engine	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
SATURATION	SoCal	New	Misc_post2020	Fryer	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	New	Misc_post2020	Griddle	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	New	Misc_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Misc_post2020	Other_Cooking	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SATURATION	SoCal	New	Misc_post2020	Space_Heat	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63
SATURATION	SoCal	New	Misc_post2020	Water_Heat	0.75	0.74	0.74	0.74	0.74	0.74	0.74	0.74
SATURATION	SoCal	New	Misc_pre2021	AC_Compressor	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
SATURATION	SoCal	New	Misc_pre2021	Cook_top	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Misc_pre2021	Engine	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Misc_pre2021	Fryer	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Griddle	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Misc_pre2021	Other_Cooking	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
SATURATION	SoCal	New	Misc_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SATURATION	SoCal	New	Misc_pre2021	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
SATURATION	SoCal	New	Office_post2020	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	New	Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_post2020	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Office_post2020	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	New	Office_pre2021	AC_Compressor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
SATURATION	SoCal	New	Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Cooking	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SATURATION	SoCal	New	Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Office_pre2021	Space_Heat	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Office_pre2021	Water_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
SATURATION	SoCal	New	Restaurant_post2020	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Restaurant_post2020	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	New	Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_post2020	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	New	Restaurant_post2020	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	Restaurant_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Restaurant_post2020	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Restaurant_post2020	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Restaurant_post2020	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SATURATION	SoCal	New	Restaurant_pre2021	AC_Compressor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
SATURATION	SoCal	New	Restaurant_pre2021	Cook_top	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
SATURATION	SoCal	New	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Restaurant_pre2021	Fryer	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
SATURATION	SoCal	New	Restaurant_pre2021	Griddle	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SATURATION	SoCal	New	Restaurant_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Restaurant_pre2021	Other_Cooking	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SATURATION	SoCal	New	Restaurant_pre2021	Space_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SATURATION	SoCal	New	Restaurant_pre2021	Water_Heat	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
SATURATION	SoCal	New	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	New	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing	Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New	Retail_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_post2020	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	New	Retail_post2020	Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	New	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Cooking	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SATURATION	SoCal	New	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	Retail_pre2021	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	New	Retail_pre2021	Water_Heat	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62
SATURATION	SoCal	New	EDUCATION_post2020	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	New	EDUCATION_post2020	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_post2020	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	EDUCATION_post2020	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_post2020	Space_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SATURATION	SoCal	New	EDUCATION_post2020	Water_Heat	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SATURATION	SoCal	New	EDUCATION_pre2021	AC_Compressor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
SATURATION	SoCal	New	EDUCATION_pre2021	Cook_top	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SATURATION	SoCal	New	EDUCATION_pre2021	Fryer	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Griddle	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
SATURATION	SoCal	New	EDUCATION_pre2021	Other_Cooking	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
SATURATION	SoCal	New	EDUCATION_pre2021	Space_Heat	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91

**Southern California Gas Company**  
**G-10 Saturations**  
**Table C Comm-14**

Variable	Region	Existing Segment ID	End Use	2033	2034	2035	2036	2037	2038	2039	2040
SATURATION	SoCal	New EDUCATION_pre2021	Water_Heat	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92

**Southern California Gas Company**  
**G-10 Fuel Shares**  
**Table C Comm-15**

Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	Ex	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Drying	0.24	0.24	0.24	0.24	0.26	0.28	0.28	0.28	0.32
SoCal	NG	Ex	Agriculture_post2020	Engine	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
SoCal	NG	Ex	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Other	0.24	0.24	0.24	0.24	0.26	0.28	0.28	0.28	0.32
SoCal	NG	Ex	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Space_Heat	0.14	0.14	0.14	0.14	0.15	0.16	0.16	0.16	0.17
SoCal	NG	Ex	Agriculture_post2020	Water_Heat	0.16	0.16	0.16	0.16	0.18	0.19	0.18	0.19	0.21
SoCal	NG	Ex	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Drying	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Agriculture_pre2021	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Space_Heat	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57
SoCal	NG	Ex	Agriculture_pre2021	Water_Heat	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.67
SoCal	NG	Ex	Health_post2020	AC_Compressor	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	Ex	Health_post2020	Cook_top	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_post2020	Drying	0.39	0.43	0.46	0.48	0.49	0.50	0.51	0.52	0.53
SoCal	NG	Ex	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_post2020	Fryer	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	Health_post2020	Griddle	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	Health_post2020	Other	0.65	0.72	0.76	0.80	0.82	0.84	0.85	0.86	0.88
SoCal	NG	Ex	Health_post2020	Other_Cooking	0.43	0.47	0.51	0.53	0.54	0.55	0.56	0.57	0.58
SoCal	NG	Ex	Health_post2020	Space_Heat	0.42	0.46	0.48	0.50	0.51	0.52	0.52	0.53	0.54
SoCal	NG	Ex	Health_post2020	Water_Heat	0.53	0.58	0.61	0.63	0.65	0.66	0.67	0.68	0.69
SoCal	NG	Ex	Health_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

**Southern California Gas Company**  
**G-10 Fuel Shares**  
**Table C Comm-15**

Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	Ex	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	Ex	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	Ex	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	Ex	Health_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Health_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	Ex	Health_pre2021	Space_Heat	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.65
SoCal	NG	Ex	Health_pre2021	Water_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SoCal	NG	Ex	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Drying	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	Ex	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Space_Heat	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.54
SoCal	NG	Ex	Laundry_post2020	Water_Heat	0.67	0.66	0.66	0.66	0.65	0.65	0.65	0.65	0.65
SoCal	NG	Ex	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Space_Heat	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SoCal	NG	Ex	Laundry_pre2021	Water_Heat	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	Ex	Lodging_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Lodging_post2020	Cook_top	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Fuel Shares**  
**Table C Comm-15**

Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	Ex	Lodging_post2020	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	Ex	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_post2020	Fryer	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Griddle	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_post2020	Other_Cooking	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Space_Heat	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25
SoCal	NG	Ex	Lodging_post2020	Water_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	Ex	Lodging_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Lodging_pre2021	Cook_top	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_pre2021	Fryer	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Griddle	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_pre2021	Other_Cooking	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Space_Heat	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SoCal	NG	Ex	Lodging_pre2021	Water_Heat	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	Ex	Misc_post2020	AC_Compressor	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
SoCal	NG	Ex	Misc_post2020	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_post2020	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Misc_post2020	Fryer	0.92	0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.91
SoCal	NG	Ex	Misc_post2020	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_post2020	Other	0.45	0.39	0.38	0.38	0.40	0.41	0.42	0.44	0.45
SoCal	NG	Ex	Misc_post2020	Other_Cooking	0.71	0.71	0.70	0.69	0.69	0.69	0.68	0.68	0.68
SoCal	NG	Ex	Misc_post2020	Space_Heat	0.63	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.64
SoCal	NG	Ex	Misc_post2020	Water_Heat	0.41	0.38	0.36	0.35	0.34	0.34	0.34	0.33	0.33
SoCal	NG	Ex	Misc_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Misc_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_pre2021	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06



**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	Ex	Misc_pre2021	Fryer	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	Ex	Misc_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_pre2021	Other	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74
SoCal	NG	Ex	Misc_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	Ex	Misc_pre2021	Space_Heat	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SoCal	NG	Ex	Misc_pre2021	Water_Heat	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47
SoCal	NG	Ex	Office_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	Ex	Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Space_Heat	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79
SoCal	NG	Ex	Office_post2020	Water_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	Ex	Office_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	Ex	Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Space_Heat	0.85	0.85	0.85	0.85	0.85	0.85	0.84	0.84	0.84
SoCal	NG	Ex	Office_pre2021	Water_Heat	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	Ex	Restaurant_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03
SoCal	NG	Ex	Restaurant_post2020	Cook_top	0.07	0.07	0.07	0.07	0.07	0.07	0.17	0.36	0.54
SoCal	NG	Ex	Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Fryer	0.07	0.07	0.07	0.07	0.07	0.07	0.16	0.33	0.50
SoCal	NG	Ex	Restaurant_post2020	Griddle	0.07	0.07	0.07	0.07	0.07	0.07	0.17	0.35	0.54

**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	Ex	Restaurant_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Other_Cooking	0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.24	0.37
SoCal	NG	Ex	Restaurant_post2020	Space_Heat	0.04	0.04	0.04	0.04	0.04	0.04	0.10	0.20	0.30
SoCal	NG	Ex	Restaurant_post2020	Water_Heat	0.07	0.07	0.07	0.07	0.07	0.07	0.15	0.31	0.47
SoCal	NG	Ex	Restaurant_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Restaurant_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Fryer	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SoCal	NG	Ex	Restaurant_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Restaurant_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Other_Cooking	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	Ex	Restaurant_pre2021	Space_Heat	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Restaurant_pre2021	Water_Heat	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SoCal	NG	Ex	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Cooking	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.08
SoCal	NG	Ex	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Other	0.70	0.70	0.70	0.70	0.70	0.69	0.72	0.79	0.86
SoCal	NG	Ex	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Space_Heat	0.36	0.36	0.36	0.36	0.36	0.35	0.37	0.39	0.42
SoCal	NG	Ex	Retail_post2020	Water_Heat	0.22	0.21	0.21	0.21	0.21	0.21	0.22	0.24	0.26
SoCal	NG	Ex	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Cooking	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	Ex	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Fuel Shares**  
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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	Ex	Retail_pre2021	Space_Heat	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51
SoCal	NG	Ex	Retail_pre2021	Water_Heat	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
SoCal	NG	Ex	EDUCATION_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	EDUCATION_post2020	Cook_top	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	Ex	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Fryer	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	Ex	EDUCATION_post2020	Griddle	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	Ex	EDUCATION_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Other_Cooking	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	Ex	EDUCATION_post2020	Space_Heat	0.42	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.35
SoCal	NG	Ex	EDUCATION_post2020	Water_Heat	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
SoCal	NG	Ex	EDUCATION_pre2021	AC_Compressor	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	Ex	EDUCATION_pre2021	Cook_top	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Fryer	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Griddle	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Other_Cooking	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.64	0.64	0.64	0.64	0.64
SoCal	NG	Ex	EDUCATION_pre2021	Water_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SoCal	NG	New	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Drying	0.24	0.24	0.24	0.24	0.26	0.28	0.28	0.28	0.32
SoCal	NG	New	Agriculture_post2020	Engine	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
SoCal	NG	New	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Other	0.24	0.24	0.24	0.24	0.26	0.28	0.28	0.28	0.32
SoCal	NG	New	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Space_Heat	0.14	0.14	0.14	0.14	0.15	0.16	0.16	0.16	0.17
SoCal	NG	New	Agriculture_post2020	Water_Heat	0.16	0.16	0.16	0.16	0.18	0.19	0.18	0.19	0.21

**Southern California Gas Company**  
**G-10 Fuel Shares**  
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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	New	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Drying	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Agriculture_pre2021	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Space_Heat	0.58	0.58	0.58	0.58	0.58	0.58	0.57	0.57	0.57
SoCal	NG	New	Agriculture_pre2021	Water_Heat	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.67
SoCal	NG	New	Health_post2020	AC_Compressor	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	New	Health_post2020	Cook_top	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_post2020	Drying	0.39	0.43	0.46	0.48	0.49	0.50	0.51	0.52	0.53
SoCal	NG	New	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_post2020	Fryer	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	Health_post2020	Griddle	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	Health_post2020	Other	0.65	0.72	0.76	0.80	0.82	0.84	0.85	0.86	0.88
SoCal	NG	New	Health_post2020	Other_Cooking	0.43	0.47	0.51	0.53	0.54	0.55	0.56	0.57	0.58
SoCal	NG	New	Health_post2020	Space_Heat	0.42	0.46	0.48	0.50	0.51	0.52	0.52	0.53	0.54
SoCal	NG	New	Health_post2020	Water_Heat	0.53	0.58	0.61	0.63	0.65	0.66	0.67	0.68	0.69
SoCal	NG	New	Health_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	New	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	New	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	New	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	New	Health_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Health_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	New	Health_pre2021	Space_Heat	0.66	0.66	0.66	0.66	0.66	0.65	0.65	0.65	0.65
SoCal	NG	New	Health_pre2021	Water_Heat	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
SoCal	NG	New	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	New	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Drying	0.62	0.62	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	New	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Space_Heat	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.54	0.54
SoCal	NG	New	Laundry_post2020	Water_Heat	0.67	0.66	0.66	0.66	0.65	0.65	0.65	0.65	0.65
SoCal	NG	New	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	New	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Space_Heat	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SoCal	NG	New	Laundry_pre2021	Water_Heat	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	New	Lodging_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Lodging_post2020	Cook_top	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	New	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_post2020	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	New	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_post2020	Fryer	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	New	Lodging_post2020	Griddle	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	New	Lodging_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_post2020	Other_Cooking	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.45	0.45
SoCal	NG	New	Lodging_post2020	Space_Heat	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25
SoCal	NG	New	Lodging_post2020	Water_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	New	Lodging_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Lodging_pre2021	Cook_top	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	New	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_pre2021	Fryer	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Griddle	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_pre2021	Other_Cooking	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Space_Heat	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SoCal	NG	New	Lodging_pre2021	Water_Heat	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	New	Misc_post2020	AC_Compressor	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
SoCal	NG	New	Misc_post2020	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_post2020	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Misc_post2020	Fryer	0.92	0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.91
SoCal	NG	New	Misc_post2020	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_post2020	Other	0.45	0.39	0.38	0.38	0.40	0.41	0.42	0.44	0.45
SoCal	NG	New	Misc_post2020	Other_Cooking	0.71	0.71	0.70	0.69	0.69	0.69	0.68	0.68	0.68
SoCal	NG	New	Misc_post2020	Space_Heat	0.63	0.61	0.61	0.61	0.62	0.62	0.63	0.63	0.64
SoCal	NG	New	Misc_post2020	Water_Heat	0.41	0.38	0.36	0.35	0.34	0.34	0.34	0.33	0.33
SoCal	NG	New	Misc_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Misc_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_pre2021	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Misc_pre2021	Fryer	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	New	Misc_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_pre2021	Other	0.73	0.73	0.73	0.73	0.74	0.74	0.74	0.74	0.74
SoCal	NG	New	Misc_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	New	Misc_pre2021	Space_Heat	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
SoCal	NG	New	Misc_pre2021	Water_Heat	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47
SoCal	NG	New	Office_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	New	Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	New	Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Space_Heat	0.78	0.78	0.78	0.79	0.79	0.79	0.79	0.79	0.79
SoCal	NG	New	Office_post2020	Water_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	New	Office_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	New	Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Space_Heat	0.85	0.85	0.85	0.85	0.85	0.85	0.84	0.84	0.84
SoCal	NG	New	Office_pre2021	Water_Heat	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	New	Restaurant_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03
SoCal	NG	New	Restaurant_post2020	Cook_top	0.07	0.07	0.07	0.07	0.07	0.07	0.17	0.36	0.54
SoCal	NG	New	Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Fryer	0.07	0.07	0.07	0.07	0.07	0.07	0.16	0.33	0.50
SoCal	NG	New	Restaurant_post2020	Griddle	0.07	0.07	0.07	0.07	0.07	0.07	0.17	0.35	0.54
SoCal	NG	New	Restaurant_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Other_Cooking	0.05	0.05	0.05	0.05	0.05	0.05	0.12	0.24	0.37
SoCal	NG	New	Restaurant_post2020	Space_Heat	0.04	0.04	0.04	0.04	0.04	0.04	0.10	0.20	0.30
SoCal	NG	New	Restaurant_post2020	Water_Heat	0.07	0.07	0.07	0.07	0.07	0.07	0.15	0.31	0.47
SoCal	NG	New	Restaurant_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Restaurant_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_pre2021	Fryer	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SoCal	NG	New	Restaurant_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Restaurant_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	New	Restaurant_pre2021	Other_Cooking	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	New	Restaurant_pre2021	Space_Heat	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	New	Restaurant_pre2021	Water_Heat	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SoCal	NG	New	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Cooking	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.08
SoCal	NG	New	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Other	0.70	0.70	0.70	0.70	0.70	0.69	0.72	0.79	0.86
SoCal	NG	New	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Space_Heat	0.36	0.36	0.36	0.36	0.36	0.35	0.37	0.39	0.42
SoCal	NG	New	Retail_post2020	Water_Heat	0.22	0.21	0.21	0.21	0.21	0.21	0.22	0.24	0.26
SoCal	NG	New	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Cooking	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	New	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Space_Heat	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51
SoCal	NG	New	Retail_pre2021	Water_Heat	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
SoCal	NG	New	EDUCATION_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	EDUCATION_post2020	Cook_top	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	New	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Fryer	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	New	EDUCATION_post2020	Griddle	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	New	EDUCATION_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Other_Cooking	0.15	0.13	0.12	0.11	0.10	0.10	0.09	0.09	0.09
SoCal	NG	New	EDUCATION_post2020	Space_Heat	0.42	0.40	0.39	0.38	0.37	0.36	0.36	0.35	0.35



**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
SoCal	NG	New	EDUCATION_post2020	Water_Heat	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
SoCal	NG	New	EDUCATION_pre2021	AC_Compressor	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	New	EDUCATION_pre2021	Cook_top	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Fryer	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Griddle	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Other_Cooking	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.64	0.64	0.64	0.64	0.64
SoCal	NG	New	EDUCATION_pre2021	Water_Heat	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77

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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	Ex	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Drying	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34
SoCal	NG	Ex	Agriculture_post2020	Engine	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	Ex	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Other	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35
SoCal	NG	Ex	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_post2020	Space_Heat	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18
SoCal	NG	Ex	Agriculture_post2020	Water_Heat	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
SoCal	NG	Ex	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Drying	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	Ex	Agriculture_pre2021	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Agriculture_pre2021	Space_Heat	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SoCal	NG	Ex	Agriculture_pre2021	Water_Heat	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	Ex	Health_post2020	AC_Compressor	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	Ex	Health_post2020	Cook_top	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	Ex	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_post2020	Drying	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
SoCal	NG	Ex	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_post2020	Fryer	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	Ex	Health_post2020	Griddle	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	Ex	Health_post2020	Other	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	Ex	Health_post2020	Other_Cooking	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
SoCal	NG	Ex	Health_post2020	Space_Heat	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SoCal	NG	Ex	Health_post2020	Water_Heat	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.71
SoCal	NG	Ex	Health_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	Ex	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	Ex	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	Ex	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	Ex	Health_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Health_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	Ex	Health_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SoCal	NG	Ex	Health_pre2021	Water_Heat	0.82	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
SoCal	NG	Ex	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	Ex	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_post2020	Space_Heat	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
SoCal	NG	Ex	Laundry_post2020	Water_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SoCal	NG	Ex	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Laundry_pre2021	Space_Heat	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SoCal	NG	Ex	Laundry_pre2021	Water_Heat	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	Ex	Lodging_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Lodging_post2020	Cook_top	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	Ex	Lodging_post2020	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	Ex	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_post2020	Fryer	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Griddle	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_post2020	Other_Cooking	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_post2020	Space_Heat	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SoCal	NG	Ex	Lodging_post2020	Water_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	Ex	Lodging_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Lodging_pre2021	Cook_top	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_pre2021	Fryer	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Griddle	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Lodging_pre2021	Other_Cooking	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Lodging_pre2021	Space_Heat	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SoCal	NG	Ex	Lodging_pre2021	Water_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	Ex	Misc_post2020	AC_Compressor	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
SoCal	NG	Ex	Misc_post2020	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_post2020	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Misc_post2020	Fryer	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SoCal	NG	Ex	Misc_post2020	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_post2020	Other	0.46	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49
SoCal	NG	Ex	Misc_post2020	Other_Cooking	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
SoCal	NG	Ex	Misc_post2020	Space_Heat	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
SoCal	NG	Ex	Misc_post2020	Water_Heat	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	Misc_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Misc_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Misc_pre2021	Engine	0.06	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04

**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	Ex	Misc_pre2021	Fryer	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	Ex	Misc_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Misc_pre2021	Other	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
SoCal	NG	Ex	Misc_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	Ex	Misc_pre2021	Space_Heat	0.57	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SoCal	NG	Ex	Misc_pre2021	Water_Heat	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46
SoCal	NG	Ex	Office_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	Ex	Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_post2020	Space_Heat	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SoCal	NG	Ex	Office_post2020	Water_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	Ex	Office_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	Ex	Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Office_pre2021	Space_Heat	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
SoCal	NG	Ex	Office_pre2021	Water_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	Ex	Restaurant_post2020	AC_Compressor	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	Ex	Restaurant_post2020	Cook_top	0.67	0.73	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SoCal	NG	Ex	Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Fryer	0.62	0.67	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SoCal	NG	Ex	Restaurant_post2020	Griddle	0.66	0.72	0.77	0.77	0.77	0.77	0.77	0.77	0.77

**Southern California Gas Company**  
**G-10 Fuel Shares**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	Ex	Restaurant_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_post2020	Other_Cooking	0.45	0.49	0.52	0.52	0.52	0.52	0.52	0.52	0.52
SoCal	NG	Ex	Restaurant_post2020	Space_Heat	0.37	0.41	0.43	0.43	0.43	0.43	0.43	0.43	0.43
SoCal	NG	Ex	Restaurant_post2020	Water_Heat	0.58	0.64	0.68	0.68	0.68	0.68	0.68	0.68	0.68
SoCal	NG	Ex	Restaurant_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	Restaurant_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Fryer	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SoCal	NG	Ex	Restaurant_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Restaurant_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Restaurant_pre2021	Other_Cooking	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	Ex	Restaurant_pre2021	Space_Heat	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	Ex	Restaurant_pre2021	Water_Heat	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SoCal	NG	Ex	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Cooking	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	Ex	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Other	0.90	0.92	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	Ex	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_post2020	Space_Heat	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	Ex	Retail_post2020	Water_Heat	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28
SoCal	NG	Ex	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Cooking	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	Ex	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	Retail_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	Ex	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
**G-10 Fuel Shares**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	Ex	Retail_pre2021	Space_Heat	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
SoCal	NG	Ex	Retail_pre2021	Water_Heat	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
SoCal	NG	Ex	EDUCATION_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	Ex	EDUCATION_post2020	Cook_top	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Fryer	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	EDUCATION_post2020	Griddle	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	EDUCATION_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_post2020	Other_Cooking	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	Ex	EDUCATION_post2020	Space_Heat	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34
SoCal	NG	Ex	EDUCATION_post2020	Water_Heat	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
SoCal	NG	Ex	EDUCATION_pre2021	AC_Compressor	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	Ex	EDUCATION_pre2021	Cook_top	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Fryer	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Griddle	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	Ex	EDUCATION_pre2021	Other_Cooking	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	Ex	EDUCATION_pre2021	Space_Heat	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
SoCal	NG	Ex	EDUCATION_pre2021	Water_Heat	0.77	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
SoCal	NG	New	Agriculture_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Drying	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34
SoCal	NG	New	Agriculture_post2020	Engine	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	New	Agriculture_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Other	0.36	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35
SoCal	NG	New	Agriculture_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_post2020	Space_Heat	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.18
SoCal	NG	New	Agriculture_post2020	Water_Heat	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	New	Agriculture_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Drying	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	New	Agriculture_pre2021	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Agriculture_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Agriculture_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Agriculture_pre2021	Space_Heat	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SoCal	NG	New	Agriculture_pre2021	Water_Heat	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	New	Health_post2020	AC_Compressor	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	New	Health_post2020	Cook_top	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	New	Health_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_post2020	Drying	0.53	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
SoCal	NG	New	Health_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_post2020	Fryer	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	New	Health_post2020	Griddle	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	New	Health_post2020	Other	0.89	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	New	Health_post2020	Other_Cooking	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
SoCal	NG	New	Health_post2020	Space_Heat	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SoCal	NG	New	Health_post2020	Water_Heat	0.70	0.70	0.71	0.71	0.71	0.71	0.71	0.71	0.71
SoCal	NG	New	Health_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Health_pre2021	Cook_top	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	New	Health_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	New	Health_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Health_pre2021	Fryer	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	New	Health_pre2021	Griddle	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
SoCal	NG	New	Health_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Health_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	New	Health_pre2021	Space_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SoCal	NG	New	Health_pre2021	Water_Heat	0.82	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81
SoCal	NG	New	Laundry_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	New	Laundry_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	New	Laundry_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Laundry_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_post2020	Space_Heat	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54	0.54
SoCal	NG	New	Laundry_post2020	Water_Heat	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
SoCal	NG	New	Laundry_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	New	Laundry_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Laundry_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Laundry_pre2021	Space_Heat	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
SoCal	NG	New	Laundry_pre2021	Water_Heat	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	New	Lodging_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Lodging_post2020	Cook_top	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_post2020	Drying	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61
SoCal	NG	New	Lodging_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_post2020	Fryer	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_post2020	Griddle	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_post2020	Other_Cooking	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_post2020	Space_Heat	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
SoCal	NG	New	Lodging_post2020	Water_Heat	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	New	Lodging_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Lodging_pre2021	Cook_top	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_pre2021	Drying	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60

**Southern California Gas Company**  
**G-10 Fuel Shares**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	New	Lodging_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_pre2021	Fryer	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Griddle	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Lodging_pre2021	Other_Cooking	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Lodging_pre2021	Space_Heat	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
SoCal	NG	New	Lodging_pre2021	Water_Heat	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	New	Misc_post2020	AC_Compressor	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
SoCal	NG	New	Misc_post2020	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_post2020	Engine	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Misc_post2020	Fryer	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SoCal	NG	New	Misc_post2020	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_post2020	Other	0.46	0.48	0.48	0.49	0.49	0.49	0.49	0.49	0.49
SoCal	NG	New	Misc_post2020	Other_Cooking	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
SoCal	NG	New	Misc_post2020	Space_Heat	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
SoCal	NG	New	Misc_post2020	Water_Heat	0.33	0.33	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	Misc_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Misc_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Misc_pre2021	Engine	0.06	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04
SoCal	NG	New	Misc_pre2021	Fryer	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
SoCal	NG	New	Misc_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Misc_pre2021	Other	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
SoCal	NG	New	Misc_pre2021	Other_Cooking	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
SoCal	NG	New	Misc_pre2021	Space_Heat	0.57	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55
SoCal	NG	New	Misc_pre2021	Water_Heat	0.47	0.47	0.46	0.46	0.46	0.46	0.46	0.46	0.46
SoCal	NG	New	Office_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Office_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	New	Office_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	New	Office_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Office_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_post2020	Space_Heat	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
SoCal	NG	New	Office_post2020	Water_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	New	Office_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Office_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Cooking	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
SoCal	NG	New	Office_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Office_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Office_pre2021	Space_Heat	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
SoCal	NG	New	Office_pre2021	Water_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
SoCal	NG	New	Restaurant_post2020	AC_Compressor	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	New	Restaurant_post2020	Cook_top	0.67	0.73	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SoCal	NG	New	Restaurant_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Fryer	0.62	0.67	0.72	0.72	0.72	0.72	0.72	0.72	0.72
SoCal	NG	New	Restaurant_post2020	Griddle	0.66	0.72	0.77	0.77	0.77	0.77	0.77	0.77	0.77
SoCal	NG	New	Restaurant_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_post2020	Other_Cooking	0.45	0.49	0.52	0.52	0.52	0.52	0.52	0.52	0.52
SoCal	NG	New	Restaurant_post2020	Space_Heat	0.37	0.41	0.43	0.43	0.43	0.43	0.43	0.43	0.43
SoCal	NG	New	Restaurant_post2020	Water_Heat	0.58	0.64	0.68	0.68	0.68	0.68	0.68	0.68	0.68
SoCal	NG	New	Restaurant_pre2021	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	Restaurant_pre2021	Cook_top	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Restaurant_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Restaurant_pre2021	Fryer	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
SoCal	NG	New	Restaurant_pre2021	Griddle	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Restaurant_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Southern California Gas Company**  
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Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	New	Restaurant_pre2021	Other_Cooking	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
SoCal	NG	New	Restaurant_pre2021	Space_Heat	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
SoCal	NG	New	Restaurant_pre2021	Water_Heat	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
SoCal	NG	New	Retail_post2020	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Cooking	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	New	Retail_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Other	0.90	0.92	0.94	0.94	0.94	0.94	0.94	0.94	0.94
SoCal	NG	New	Retail_post2020	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_post2020	Space_Heat	0.44	0.44	0.45	0.45	0.45	0.45	0.45	0.45	0.45
SoCal	NG	New	Retail_post2020	Water_Heat	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28
SoCal	NG	New	Retail_pre2021	AC_Compressor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Cook_top	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Cooking	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
SoCal	NG	New	Retail_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Fryer	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Griddle	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Other	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
SoCal	NG	New	Retail_pre2021	Other_Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	Retail_pre2021	Space_Heat	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
SoCal	NG	New	Retail_pre2021	Water_Heat	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
SoCal	NG	New	EDUCATION_post2020	AC_Compressor	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
SoCal	NG	New	EDUCATION_post2020	Cook_top	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	EDUCATION_post2020	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Fryer	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	EDUCATION_post2020	Griddle	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	EDUCATION_post2020	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_post2020	Other_Cooking	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
SoCal	NG	New	EDUCATION_post2020	Space_Heat	0.35	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34

**Southern California Gas Company**  
**G-10 Fuel Shares**  
**Table C Comm-15**

Region	Fuel	Existing/New	Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
SoCal	NG	New	EDUCATION_post2020	Water_Heat	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
SoCal	NG	New	EDUCATION_pre2021	AC_Compressor	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
SoCal	NG	New	EDUCATION_pre2021	Cook_top	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Cooking	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Drying	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Engine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Fryer	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Griddle	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SoCal	NG	New	EDUCATION_pre2021	Other_Cooking	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
SoCal	NG	New	EDUCATION_pre2021	Space_Heat	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
SoCal	NG	New	EDUCATION_pre2021	Water_Heat	0.77	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	Agriculture_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Drying	18,098.78	17,853.96	17,801.32	17,245.85	17,194.25	17,056.84
UEC	SoCal	NG	Ex	Agriculture_post2020	Engine	77,819.85	76,767.19	76,540.87	74,152.50	73,930.62	73,339.80
UEC	SoCal	NG	Ex	Agriculture_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Other	851.07	839.56	837.08	810.96	808.54	802.08
UEC	SoCal	NG	Ex	Agriculture_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Space_Heat	13,134.93	12,957.25	12,919.05	12,515.93	12,478.48	12,378.75
UEC	SoCal	NG	Ex	Agriculture_post2020	Water_Heat	17,370.17	17,135.21	17,084.69	16,551.58	16,502.06	16,370.18
UEC	SoCal	NG	Ex	Agriculture_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Drying	19,279.30	19,018.51	18,962.44	18,370.74	18,315.77	18,169.40
UEC	SoCal	NG	Ex	Agriculture_pre2021	Engine	77,819.85	76,767.19	76,540.87	74,152.50	73,930.62	73,339.80
UEC	SoCal	NG	Ex	Agriculture_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Other	906.58	894.32	891.68	863.86	861.27	854.39
UEC	SoCal	NG	Ex	Agriculture_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Space_Heat	13,134.93	12,957.25	12,919.05	12,515.93	12,478.48	12,378.75
UEC	SoCal	NG	Ex	Agriculture_pre2021	Water_Heat	17,370.17	17,135.21	17,084.69	16,551.58	16,502.06	16,370.18
UEC	SoCal	NG	Ex	Health_post2020	AC_Compressor	2,211.35	2,207.78	2,207.00	2,198.78	2,197.99	2,195.89
UEC	SoCal	NG	Ex	Health_post2020	Cook_top	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	Ex	Health_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_post2020	Drying	2,837.84	2,833.26	2,832.26	2,821.71	2,820.70	2,818.01
UEC	SoCal	NG	Ex	Health_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_post2020	Fryer	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	Ex	Health_post2020	Griddle	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	Health_post2020	Other	262.09	261.66	261.57	260.60	260.50	260.25
UEC	SoCal	NG	Ex	Health_post2020	Other_Cooking	513.20	512.37	512.19	510.28	510.10	509.62
UEC	SoCal	NG	Ex	Health_post2020	Space_Heat	1,333.99	1,331.84	1,331.37	1,326.41	1,325.94	1,324.67
UEC	SoCal	NG	Ex	Health_post2020	Water_Heat	7,785.00	7,772.42	7,769.69	7,740.74	7,737.98	7,730.59
UEC	SoCal	NG	Ex	Health_pre2021	AC_Compressor	2,211.35	2,207.78	2,207.00	2,198.78	2,197.99	2,195.89
UEC	SoCal	NG	Ex	Health_pre2021	Cook_top	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	Ex	Health_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_pre2021	Drying	2,837.84	2,833.26	2,832.26	2,821.71	2,820.70	2,818.01
UEC	SoCal	NG	Ex	Health_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_pre2021	Fryer	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	Ex	Health_pre2021	Griddle	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	Ex	Health_pre2021	Other	276.69	276.24	276.14	275.11	275.02	274.75
UEC	SoCal	NG	Ex	Health_pre2021	Other_Cooking	513.20	512.37	512.19	510.28	510.10	509.62
UEC	SoCal	NG	Ex	Health_pre2021	Space_Heat	1,333.99	1,331.84	1,331.37	1,326.41	1,325.94	1,324.67
UEC	SoCal	NG	Ex	Health_pre2021	Water_Heat	7,785.00	7,772.42	7,769.69	7,740.74	7,737.98	7,730.59
UEC	SoCal	NG	Ex	Laundry_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Drying	18,808.59	18,763.62	18,753.85	18,650.42	18,640.55	18,614.22
UEC	SoCal	NG	Ex	Laundry_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Other	699.80	698.13	697.76	693.92	693.55	692.57
UEC	SoCal	NG	Ex	Laundry_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Space_Heat	183.74	183.30	183.20	182.19	182.09	181.84
UEC	SoCal	NG	Ex	Laundry_post2020	Water_Heat	3,337.48	3,329.50	3,327.77	3,309.41	3,307.66	3,302.99
UEC	SoCal	NG	Ex	Laundry_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Drying	18,808.59	18,763.62	18,753.85	18,650.42	18,640.55	18,614.22

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	Laundry_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Other	678.19	676.57	676.21	672.49	672.13	671.18
UEC	SoCal	NG	Ex	Laundry_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Space_Heat	183.74	183.30	183.20	182.19	182.09	181.84
UEC	SoCal	NG	Ex	Laundry_pre2021	Water_Heat	3,337.48	3,329.50	3,327.77	3,309.41	3,307.66	3,302.99
UEC	SoCal	NG	Ex	Lodging_post2020	AC_Compressor	775.41	773.27	772.81	767.89	767.43	766.18
UEC	SoCal	NG	Ex	Lodging_post2020	Cook_top	4,386.77	4,374.67	4,372.04	4,344.23	4,341.58	4,334.51
UEC	SoCal	NG	Ex	Lodging_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Drying	2,352.85	2,346.36	2,344.95	2,330.03	2,328.61	2,324.82
UEC	SoCal	NG	Ex	Lodging_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Fryer	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	Ex	Lodging_post2020	Griddle	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	Ex	Lodging_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Other_Cooking	567.01	565.45	565.11	561.52	561.17	560.26
UEC	SoCal	NG	Ex	Lodging_post2020	Space_Heat	5,254.19	5,239.70	5,236.55	5,203.24	5,200.07	5,191.60
UEC	SoCal	NG	Ex	Lodging_post2020	Water_Heat	9,571.83	9,545.43	9,539.69	9,479.01	9,473.23	9,457.80
UEC	SoCal	NG	Ex	Lodging_pre2021	AC_Compressor	775.41	773.27	772.81	767.89	767.43	766.18
UEC	SoCal	NG	Ex	Lodging_pre2021	Cook_top	4,386.77	4,374.67	4,372.04	4,344.23	4,341.58	4,334.51
UEC	SoCal	NG	Ex	Lodging_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Drying	2,352.85	2,346.36	2,344.95	2,330.03	2,328.61	2,324.82
UEC	SoCal	NG	Ex	Lodging_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Fryer	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	Ex	Lodging_pre2021	Griddle	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	Ex	Lodging_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Other_Cooking	567.01	565.45	565.11	561.52	561.17	560.26
UEC	SoCal	NG	Ex	Lodging_pre2021	Space_Heat	5,254.19	5,239.70	5,236.55	5,203.24	5,200.07	5,191.60
UEC	SoCal	NG	Ex	Lodging_pre2021	Water_Heat	9,405.73	9,379.79	9,374.16	9,314.53	9,308.84	9,293.68
UEC	SoCal	NG	Ex	Misc_post2020	AC_Compressor	3,353.70	3,333.55	3,329.19	3,283.06	3,278.69	3,267.06



**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	Misc_post2020	Cook_top	1,858.35	1,847.19	1,844.77	1,819.21	1,816.79	1,810.34
UEC	SoCal	NG	Ex	Misc_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_post2020	Engine	62,247.49	61,873.56	61,792.55	60,936.28	60,855.31	60,639.34
UEC	SoCal	NG	Ex	Misc_post2020	Fryer	292.97	291.21	290.83	286.80	286.42	285.40
UEC	SoCal	NG	Ex	Misc_post2020	Griddle	815.86	810.95	809.89	798.67	797.61	794.78
UEC	SoCal	NG	Ex	Misc_post2020	Other	678.86	674.79	673.90	664.56	663.68	661.33
UEC	SoCal	NG	Ex	Misc_post2020	Other_Cooking	318.26	316.35	315.94	311.56	311.14	310.04
UEC	SoCal	NG	Ex	Misc_post2020	Space_Heat	1,428.29	1,419.71	1,417.86	1,398.21	1,396.35	1,391.39
UEC	SoCal	NG	Ex	Misc_post2020	Water_Heat	2,636.41	2,620.57	2,617.14	2,580.88	2,577.45	2,568.30
UEC	SoCal	NG	Ex	Misc_pre2021	AC_Compressor	2,351.31	2,337.19	2,334.13	2,301.78	2,298.73	2,290.57
UEC	SoCal	NG	Ex	Misc_pre2021	Cook_top	830.67	825.68	824.59	813.17	812.09	809.21
UEC	SoCal	NG	Ex	Misc_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_pre2021	Engine	61,268.93	60,900.88	60,821.15	59,978.34	59,898.64	59,686.06
UEC	SoCal	NG	Ex	Misc_pre2021	Fryer	811.86	806.99	805.93	794.76	793.71	790.89
UEC	SoCal	NG	Ex	Misc_pre2021	Griddle	825.43	820.47	819.39	808.04	806.97	804.10
UEC	SoCal	NG	Ex	Misc_pre2021	Other	120.11	119.39	119.23	117.58	117.42	117.01
UEC	SoCal	NG	Ex	Misc_pre2021	Other_Cooking	811.18	806.30	805.25	794.09	793.03	790.22
UEC	SoCal	NG	Ex	Misc_pre2021	Space_Heat	3,212.24	3,192.94	3,188.76	3,144.57	3,140.39	3,129.25
UEC	SoCal	NG	Ex	Misc_pre2021	Water_Heat	3,100.36	3,081.73	3,077.70	3,035.05	3,031.02	3,020.26
UEC	SoCal	NG	Ex	Office_post2020	AC_Compressor	748.80	741.27	739.65	722.49	720.89	716.60
UEC	SoCal	NG	Ex	Office_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Cooking	236.55	234.17	233.66	228.24	227.73	226.38
UEC	SoCal	NG	Ex	Office_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Other	83.89	83.05	82.86	80.94	80.76	80.28
UEC	SoCal	NG	Ex	Office_post2020	Other_Cooking	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	Office_post2020	Space_Heat	2,178.56	2,156.65	2,151.92	2,102.01	2,097.33	2,084.87
UEC	SoCal	NG	Ex	Office_post2020	Water_Heat	326.81	323.53	322.82	315.33	314.63	312.76
UEC	SoCal	NG	Ex	Office_pre2021	AC_Compressor	748.80	741.27	739.65	722.49	720.89	716.60
UEC	SoCal	NG	Ex	Office_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Cooking	236.55	234.17	233.66	228.24	227.73	226.38
UEC	SoCal	NG	Ex	Office_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Other	85.50	84.64	84.45	82.49	82.31	81.82
UEC	SoCal	NG	Ex	Office_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Space_Heat	2,178.56	2,156.65	2,151.92	2,102.01	2,097.33	2,084.87
UEC	SoCal	NG	Ex	Office_pre2021	Water_Heat	326.81	323.53	322.82	315.33	314.63	312.76
UEC	SoCal	NG	Ex	Restaurant_post2020	AC_Compressor	318.07	317.18	316.98	314.93	314.73	314.21
UEC	SoCal	NG	Ex	Restaurant_post2020	Cook_top	1,878.89	1,873.61	1,872.46	1,860.33	1,859.17	1,856.08
UEC	SoCal	NG	Ex	Restaurant_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Fryer	1,691.85	1,687.09	1,686.06	1,675.13	1,674.09	1,671.31
UEC	SoCal	NG	Ex	Restaurant_post2020	Griddle	1,427.71	1,423.70	1,422.83	1,413.61	1,412.73	1,410.39
UEC	SoCal	NG	Ex	Restaurant_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Other_Cooking	1,522.65	1,518.37	1,517.44	1,507.61	1,506.67	1,504.17
UEC	SoCal	NG	Ex	Restaurant_post2020	Space_Heat	183.72	183.20	183.09	181.90	181.79	181.49
UEC	SoCal	NG	Ex	Restaurant_post2020	Water_Heat	1,304.46	1,300.80	1,300.00	1,291.58	1,290.77	1,288.63
UEC	SoCal	NG	Ex	Restaurant_pre2021	AC_Compressor	318.07	317.18	316.98	314.93	314.73	314.21
UEC	SoCal	NG	Ex	Restaurant_pre2021	Cook_top	1,956.25	1,950.76	1,949.56	1,936.93	1,935.72	1,932.51
UEC	SoCal	NG	Ex	Restaurant_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Fryer	1,691.85	1,687.09	1,686.06	1,675.13	1,674.09	1,671.31

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	Restaurant_pre2021	Griddle	1,475.93	1,471.78	1,470.88	1,461.35	1,460.44	1,458.02
UEC	SoCal	NG	Ex	Restaurant_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Other_Cooking	1,522.65	1,518.37	1,517.44	1,507.61	1,506.67	1,504.17
UEC	SoCal	NG	Ex	Restaurant_pre2021	Space_Heat	183.72	183.20	183.09	181.90	181.79	181.49
UEC	SoCal	NG	Ex	Restaurant_pre2021	Water_Heat	1,304.46	1,300.80	1,300.00	1,291.58	1,290.77	1,288.63
UEC	SoCal	NG	Ex	Retail_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Cooking	5,975.65	5,954.50	5,949.90	5,901.30	5,896.68	5,884.34
UEC	SoCal	NG	Ex	Retail_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Other	89.26	88.94	88.87	88.15	88.08	87.89
UEC	SoCal	NG	Ex	Retail_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Space_Heat	4,740.28	4,723.49	4,719.85	4,681.29	4,677.63	4,667.84
UEC	SoCal	NG	Ex	Retail_post2020	Water_Heat	2,035.68	2,028.47	2,026.91	2,010.35	2,008.77	2,004.57
UEC	SoCal	NG	Ex	Retail_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Cooking	5,975.65	5,954.50	5,949.90	5,901.30	5,896.68	5,884.34
UEC	SoCal	NG	Ex	Retail_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Other	94.00	93.66	93.59	92.83	92.75	92.56
UEC	SoCal	NG	Ex	Retail_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Space_Heat	4,740.28	4,723.49	4,719.85	4,681.29	4,677.63	4,667.84
UEC	SoCal	NG	Ex	Retail_pre2021	Water_Heat	2,035.68	2,028.47	2,026.91	2,010.35	2,008.77	2,004.57
UEC	SoCal	NG	Ex	EDUCATION_post2020	AC_Compressor	3,972.23	3,924.11	3,913.74	3,804.36	3,794.16	3,767.01
UEC	SoCal	NG	Ex	EDUCATION_post2020	Cook_top	1,854.61	1,832.14	1,827.30	1,776.23	1,771.47	1,758.79
UEC	SoCal	NG	Ex	EDUCATION_post2020	Cooking	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	Ex	EDUCATION_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Fryer	1,856.48	1,833.99	1,829.15	1,778.03	1,773.26	1,760.57
UEC	SoCal	NG	Ex	EDUCATION_post2020	Griddle	1,856.48	1,833.99	1,829.15	1,778.03	1,773.26	1,760.57
UEC	SoCal	NG	Ex	EDUCATION_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Other_Cooking	1,854.61	1,832.14	1,827.30	1,776.23	1,771.47	1,758.79
UEC	SoCal	NG	Ex	EDUCATION_post2020	Space_Heat	7,788.65	7,694.29	7,673.97	7,459.49	7,439.50	7,386.24
UEC	SoCal	NG	Ex	EDUCATION_post2020	Water_Heat	9,811.14	9,692.27	9,666.67	9,396.50	9,371.32	9,304.24
UEC	SoCal	NG	Ex	EDUCATION_pre2021	AC_Compressor	3,183.70	3,145.12	3,136.82	3,049.15	3,040.97	3,019.21
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Cook_top	1,879.77	1,856.99	1,852.09	1,800.32	1,795.50	1,782.65
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Fryer	1,882.79	1,859.98	1,855.07	1,803.22	1,798.39	1,785.52
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Griddle	1,882.79	1,859.98	1,855.07	1,803.22	1,798.39	1,785.52
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Other_Cooking	1,879.77	1,856.99	1,852.09	1,800.32	1,795.50	1,782.65
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Space_Heat	4,521.06	4,466.28	4,454.49	4,329.99	4,318.38	4,287.47
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Water_Heat	5,842.37	5,771.59	5,756.35	5,595.46	5,580.46	5,540.52
UEC	SoCal	NG	New	Agriculture_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Drying	18,098.78	17,853.96	17,801.32	17,245.85	17,194.25	17,056.84
UEC	SoCal	NG	New	Agriculture_post2020	Engine	77,819.85	76,767.19	76,540.87	74,152.50	73,930.62	73,339.80
UEC	SoCal	NG	New	Agriculture_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Other	851.07	839.56	837.08	810.96	808.54	802.08
UEC	SoCal	NG	New	Agriculture_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Space_Heat	13,134.93	12,957.25	12,919.05	12,515.93	12,478.48	12,378.75
UEC	SoCal	NG	New	Agriculture_post2020	Water_Heat	17,370.17	17,135.21	17,084.69	16,551.58	16,502.06	16,370.18

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	Agriculture_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Drying	19,279.30	19,018.51	18,962.44	18,370.74	18,315.77	18,169.40
UEC	SoCal	NG	New	Agriculture_pre2021	Engine	77,819.85	76,767.19	76,540.87	74,152.50	73,930.62	73,339.80
UEC	SoCal	NG	New	Agriculture_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Other	906.58	894.32	891.68	863.86	861.27	854.39
UEC	SoCal	NG	New	Agriculture_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Space_Heat	13,134.93	12,957.25	12,919.05	12,515.93	12,478.48	12,378.75
UEC	SoCal	NG	New	Agriculture_pre2021	Water_Heat	17,370.17	17,135.21	17,084.69	16,551.58	16,502.06	16,370.18
UEC	SoCal	NG	New	Health_post2020	AC_Compressor	2,211.35	2,207.78	2,207.00	2,198.78	2,197.99	2,195.89
UEC	SoCal	NG	New	Health_post2020	Cook_top	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	New	Health_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_post2020	Drying	2,837.84	2,833.26	2,832.26	2,821.71	2,820.70	2,818.01
UEC	SoCal	NG	New	Health_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_post2020	Fryer	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	New	Health_post2020	Griddle	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	New	Health_post2020	Other	262.09	261.66	261.57	260.60	260.50	260.25
UEC	SoCal	NG	New	Health_post2020	Other_Cooking	513.20	512.37	512.19	510.28	510.10	509.62
UEC	SoCal	NG	New	Health_post2020	Space_Heat	1,333.99	1,331.84	1,331.37	1,326.41	1,325.94	1,324.67
UEC	SoCal	NG	New	Health_post2020	Water_Heat	7,785.00	7,772.42	7,769.69	7,740.74	7,737.98	7,730.59
UEC	SoCal	NG	New	Health_pre2021	AC_Compressor	2,211.35	2,207.78	2,207.00	2,198.78	2,197.99	2,195.89
UEC	SoCal	NG	New	Health_pre2021	Cook_top	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	New	Health_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_pre2021	Drying	2,837.84	2,833.26	2,832.26	2,821.71	2,820.70	2,818.01
UEC	SoCal	NG	New	Health_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_pre2021	Fryer	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	New	Health_pre2021	Griddle	5,115.18	5,106.92	5,105.12	5,086.10	5,084.29	5,079.43
UEC	SoCal	NG	New	Health_pre2021	Other	276.69	276.24	276.14	275.11	275.02	274.75

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**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	Health_pre2021	Other_Cooking	513.20	512.37	512.19	510.28	510.10	509.62
UEC	SoCal	NG	New	Health_pre2021	Space_Heat	1,333.99	1,331.84	1,331.37	1,326.41	1,325.94	1,324.67
UEC	SoCal	NG	New	Health_pre2021	Water_Heat	7,785.00	7,772.42	7,769.69	7,740.74	7,737.98	7,730.59
UEC	SoCal	NG	New	Laundry_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Drying	18,808.59	18,763.62	18,753.85	18,650.42	18,640.55	18,614.22
UEC	SoCal	NG	New	Laundry_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Other	699.80	698.13	697.76	693.92	693.55	692.57
UEC	SoCal	NG	New	Laundry_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Space_Heat	183.74	183.30	183.20	182.19	182.09	181.84
UEC	SoCal	NG	New	Laundry_post2020	Water_Heat	3,337.48	3,329.50	3,327.77	3,309.41	3,307.66	3,302.99
UEC	SoCal	NG	New	Laundry_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Drying	18,808.59	18,763.62	18,753.85	18,650.42	18,640.55	18,614.22
UEC	SoCal	NG	New	Laundry_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Other	678.19	676.57	676.21	672.49	672.13	671.18
UEC	SoCal	NG	New	Laundry_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Space_Heat	183.74	183.30	183.20	182.19	182.09	181.84
UEC	SoCal	NG	New	Laundry_pre2021	Water_Heat	3,337.48	3,329.50	3,327.77	3,309.41	3,307.66	3,302.99
UEC	SoCal	NG	New	Lodging_post2020	AC_Compressor	775.41	773.27	772.81	767.89	767.43	766.18
UEC	SoCal	NG	New	Lodging_post2020	Cook_top	4,386.77	4,374.67	4,372.04	4,344.23	4,341.58	4,334.51
UEC	SoCal	NG	New	Lodging_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_post2020	Drying	2,352.85	2,346.36	2,344.95	2,330.03	2,328.61	2,324.82
UEC	SoCal	NG	New	Lodging_post2020	Engine	-	-	-	-	-	-

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**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	Lodging_post2020	Fryer	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	New	Lodging_post2020	Griddle	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	New	Lodging_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_post2020	Other_Cooking	567.01	565.45	565.11	561.52	561.17	560.26
UEC	SoCal	NG	New	Lodging_post2020	Space_Heat	5,254.19	5,239.70	5,236.55	5,203.24	5,200.07	5,191.60
UEC	SoCal	NG	New	Lodging_post2020	Water_Heat	9,571.83	9,545.43	9,539.69	9,479.01	9,473.23	9,457.80
UEC	SoCal	NG	New	Lodging_pre2021	AC_Compressor	775.41	773.27	772.81	767.89	767.43	766.18
UEC	SoCal	NG	New	Lodging_pre2021	Cook_top	4,386.77	4,374.67	4,372.04	4,344.23	4,341.58	4,334.51
UEC	SoCal	NG	New	Lodging_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Drying	2,352.85	2,346.36	2,344.95	2,330.03	2,328.61	2,324.82
UEC	SoCal	NG	New	Lodging_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Fryer	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	New	Lodging_pre2021	Griddle	5,709.00	5,693.25	5,689.83	5,653.64	5,650.19	5,640.98
UEC	SoCal	NG	New	Lodging_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Other_Cooking	567.01	565.45	565.11	561.52	561.17	560.26
UEC	SoCal	NG	New	Lodging_pre2021	Space_Heat	5,254.19	5,239.70	5,236.55	5,203.24	5,200.07	5,191.60
UEC	SoCal	NG	New	Lodging_pre2021	Water_Heat	9,405.73	9,379.79	9,374.16	9,314.53	9,308.84	9,293.68
UEC	SoCal	NG	New	Misc_post2020	AC_Compressor	3,353.70	3,333.55	3,329.19	3,283.06	3,278.69	3,267.06
UEC	SoCal	NG	New	Misc_post2020	Cook_top	1,858.35	1,847.19	1,844.77	1,819.21	1,816.79	1,810.34
UEC	SoCal	NG	New	Misc_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_post2020	Engine	62,247.49	61,873.56	61,792.55	60,936.28	60,855.31	60,639.34
UEC	SoCal	NG	New	Misc_post2020	Fryer	292.97	291.21	290.83	286.80	286.42	285.40
UEC	SoCal	NG	New	Misc_post2020	Griddle	815.86	810.95	809.89	798.67	797.61	794.78
UEC	SoCal	NG	New	Misc_post2020	Other	678.86	674.79	673.90	664.56	663.68	661.33
UEC	SoCal	NG	New	Misc_post2020	Other_Cooking	318.26	316.35	315.94	311.56	311.14	310.04
UEC	SoCal	NG	New	Misc_post2020	Space_Heat	1,428.29	1,419.71	1,417.86	1,398.21	1,396.35	1,391.39
UEC	SoCal	NG	New	Misc_post2020	Water_Heat	2,636.41	2,620.57	2,617.14	2,580.88	2,577.45	2,568.30
UEC	SoCal	NG	New	Misc_pre2021	AC_Compressor	2,351.31	2,337.19	2,334.13	2,301.78	2,298.73	2,290.57
UEC	SoCal	NG	New	Misc_pre2021	Cook_top	830.67	825.68	824.59	813.17	812.09	809.21

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**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	Misc_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_pre2021	Engine	61,268.93	60,900.88	60,821.15	59,978.34	59,898.64	59,686.06
UEC	SoCal	NG	New	Misc_pre2021	Fryer	811.86	806.99	805.93	794.76	793.71	790.89
UEC	SoCal	NG	New	Misc_pre2021	Griddle	825.43	820.47	819.39	808.04	806.97	804.10
UEC	SoCal	NG	New	Misc_pre2021	Other	120.11	119.39	119.23	117.58	117.42	117.01
UEC	SoCal	NG	New	Misc_pre2021	Other_Cooking	811.18	806.30	805.25	794.09	793.03	790.22
UEC	SoCal	NG	New	Misc_pre2021	Space_Heat	3,212.24	3,192.94	3,188.76	3,144.57	3,140.39	3,129.25
UEC	SoCal	NG	New	Misc_pre2021	Water_Heat	3,100.36	3,081.73	3,077.70	3,035.05	3,031.02	3,020.26
UEC	SoCal	NG	New	Office_post2020	AC_Compressor	748.80	741.27	739.65	722.49	720.89	716.60
UEC	SoCal	NG	New	Office_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Cooking	236.55	234.17	233.66	228.24	227.73	226.38
UEC	SoCal	NG	New	Office_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Other	83.89	83.05	82.86	80.94	80.76	80.28
UEC	SoCal	NG	New	Office_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Space_Heat	2,178.56	2,156.65	2,151.92	2,102.01	2,097.33	2,084.87
UEC	SoCal	NG	New	Office_post2020	Water_Heat	326.81	323.53	322.82	315.33	314.63	312.76
UEC	SoCal	NG	New	Office_pre2021	AC_Compressor	748.80	741.27	739.65	722.49	720.89	716.60
UEC	SoCal	NG	New	Office_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Cooking	236.55	234.17	233.66	228.24	227.73	226.38
UEC	SoCal	NG	New	Office_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Other	85.50	84.64	84.45	82.49	82.31	81.82
UEC	SoCal	NG	New	Office_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Space_Heat	2,178.56	2,156.65	2,151.92	2,102.01	2,097.33	2,084.87



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Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	Office_pre2021	Water_Heat	326.81	323.53	322.82	315.33	314.63	312.76
UEC	SoCal	NG	New	Restaurant_post2020	AC_Compressor	318.07	317.18	316.98	314.93	314.73	314.21
UEC	SoCal	NG	New	Restaurant_post2020	Cook_top	1,878.89	1,873.61	1,872.46	1,860.33	1,859.17	1,856.08
UEC	SoCal	NG	New	Restaurant_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Fryer	1,691.85	1,687.09	1,686.06	1,675.13	1,674.09	1,671.31
UEC	SoCal	NG	New	Restaurant_post2020	Griddle	1,427.71	1,423.70	1,422.83	1,413.61	1,412.73	1,410.39
UEC	SoCal	NG	New	Restaurant_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Other_Cooking	1,522.65	1,518.37	1,517.44	1,507.61	1,506.67	1,504.17
UEC	SoCal	NG	New	Restaurant_post2020	Space_Heat	183.72	183.20	183.09	181.90	181.79	181.49
UEC	SoCal	NG	New	Restaurant_post2020	Water_Heat	1,304.46	1,300.80	1,300.00	1,291.58	1,290.77	1,288.63
UEC	SoCal	NG	New	Restaurant_pre2021	AC_Compressor	318.07	317.18	316.98	314.93	314.73	314.21
UEC	SoCal	NG	New	Restaurant_pre2021	Cook_top	1,956.25	1,950.76	1,949.56	1,936.93	1,935.72	1,932.51
UEC	SoCal	NG	New	Restaurant_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Fryer	1,691.85	1,687.09	1,686.06	1,675.13	1,674.09	1,671.31
UEC	SoCal	NG	New	Restaurant_pre2021	Griddle	1,475.93	1,471.78	1,470.88	1,461.35	1,460.44	1,458.02
UEC	SoCal	NG	New	Restaurant_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Other_Cooking	1,522.65	1,518.37	1,517.44	1,507.61	1,506.67	1,504.17
UEC	SoCal	NG	New	Restaurant_pre2021	Space_Heat	183.72	183.20	183.09	181.90	181.79	181.49
UEC	SoCal	NG	New	Restaurant_pre2021	Water_Heat	1,304.46	1,300.80	1,300.00	1,291.58	1,290.77	1,288.63
UEC	SoCal	NG	New	Retail_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Cooking	5,975.65	5,954.50	5,949.90	5,901.30	5,896.68	5,884.34
UEC	SoCal	NG	New	Retail_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Griddle	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	Retail_post2020	Other	89.26	88.94	88.87	88.15	88.08	87.89
UEC	SoCal	NG	New	Retail_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Space_Heat	4,740.28	4,723.49	4,719.85	4,681.29	4,677.63	4,667.84
UEC	SoCal	NG	New	Retail_post2020	Water_Heat	2,035.68	2,028.47	2,026.91	2,010.35	2,008.77	2,004.57
UEC	SoCal	NG	New	Retail_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Cooking	5,975.65	5,954.50	5,949.90	5,901.30	5,896.68	5,884.34
UEC	SoCal	NG	New	Retail_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Other	94.00	93.66	93.59	92.83	92.75	92.56
UEC	SoCal	NG	New	Retail_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Space_Heat	4,740.28	4,723.49	4,719.85	4,681.29	4,677.63	4,667.84
UEC	SoCal	NG	New	Retail_pre2021	Water_Heat	2,035.68	2,028.47	2,026.91	2,010.35	2,008.77	2,004.57
UEC	SoCal	NG	New	EDUCATION_post2020	AC_Compressor	3,972.23	3,924.11	3,913.74	3,804.36	3,794.16	3,767.01
UEC	SoCal	NG	New	EDUCATION_post2020	Cook_top	1,854.61	1,832.14	1,827.30	1,776.23	1,771.47	1,758.79
UEC	SoCal	NG	New	EDUCATION_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Fryer	1,856.48	1,833.99	1,829.15	1,778.03	1,773.26	1,760.57
UEC	SoCal	NG	New	EDUCATION_post2020	Griddle	1,856.48	1,833.99	1,829.15	1,778.03	1,773.26	1,760.57
UEC	SoCal	NG	New	EDUCATION_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Other_Cooking	1,854.61	1,832.14	1,827.30	1,776.23	1,771.47	1,758.79
UEC	SoCal	NG	New	EDUCATION_post2020	Space_Heat	7,788.65	7,694.29	7,673.97	7,459.49	7,439.50	7,386.24
UEC	SoCal	NG	New	EDUCATION_post2020	Water_Heat	9,811.14	9,692.27	9,666.67	9,396.50	9,371.32	9,304.24
UEC	SoCal	NG	New	EDUCATION_pre2021	AC_Compressor	3,183.70	3,145.12	3,136.82	3,049.15	3,040.97	3,019.21
UEC	SoCal	NG	New	EDUCATION_pre2021	Cook_top	1,879.77	1,856.99	1,852.09	1,800.32	1,795.50	1,782.65
UEC	SoCal	NG	New	EDUCATION_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Drying	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2023	2024	2025	2026	2027	2028
UEC	SoCal	NG	New	EDUCATION_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Fryer	1,882.79	1,859.98	1,855.07	1,803.22	1,798.39	1,785.52
UEC	SoCal	NG	New	EDUCATION_pre2021	Griddle	1,882.79	1,859.98	1,855.07	1,803.22	1,798.39	1,785.52
UEC	SoCal	NG	New	EDUCATION_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Other_Cooking	1,879.77	1,856.99	1,852.09	1,800.32	1,795.50	1,782.65
UEC	SoCal	NG	New	EDUCATION_pre2021	Space_Heat	4,521.06	4,466.28	4,454.49	4,329.99	4,318.38	4,287.47
UEC	SoCal	NG	New	EDUCATION_pre2021	Water_Heat	5,842.37	5,771.59	5,756.35	5,595.46	5,580.46	5,540.52

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	Agriculture_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Drying	17,023.25	16,947.09	17,008.94	17,019.54	16,998.76	16,989.93
UEC	SoCal	NG	Ex	Agriculture_post2020	Engine	73,195.35	72,867.88	73,133.81	73,179.41	73,090.07	73,052.09
UEC	SoCal	NG	Ex	Agriculture_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Other	800.50	796.91	799.82	800.32	799.34	798.93
UEC	SoCal	NG	Ex	Agriculture_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Space_Heat	12,354.37	12,299.10	12,343.99	12,351.68	12,336.60	12,330.19
UEC	SoCal	NG	Ex	Agriculture_post2020	Water_Heat	16,337.94	16,264.84	16,324.20	16,334.38	16,314.44	16,305.96
UEC	SoCal	NG	Ex	Agriculture_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Drying	18,133.61	18,052.48	18,118.36	18,129.66	18,107.53	18,098.12
UEC	SoCal	NG	Ex	Agriculture_pre2021	Engine	73,195.35	72,867.88	73,133.81	73,179.41	73,090.07	73,052.09
UEC	SoCal	NG	Ex	Agriculture_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Other	852.71	848.89	851.99	852.52	851.48	851.04
UEC	SoCal	NG	Ex	Agriculture_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Space_Heat	12,354.37	12,299.10	12,343.99	12,351.68	12,336.60	12,330.19
UEC	SoCal	NG	Ex	Agriculture_pre2021	Water_Heat	16,337.94	16,264.84	16,324.20	16,334.38	16,314.44	16,305.96
UEC	SoCal	NG	Ex	Health_post2020	AC_Compressor	2,195.38	2,194.21	2,195.16	2,195.32	2,195.00	2,194.87
UEC	SoCal	NG	Ex	Health_post2020	Cook_top	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	Ex	Health_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_post2020	Drying	2,817.34	2,815.84	2,817.07	2,817.28	2,816.87	2,816.69
UEC	SoCal	NG	Ex	Health_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_post2020	Fryer	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	Ex	Health_post2020	Griddle	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	Health_post2020	Other	260.19	260.05	260.17	260.19	260.15	260.13
UEC	SoCal	NG	Ex	Health_post2020	Other_Cooking	509.50	509.22	509.45	509.48	509.41	509.38
UEC	SoCal	NG	Ex	Health_post2020	Space_Heat	1,324.36	1,323.65	1,324.23	1,324.33	1,324.13	1,324.05
UEC	SoCal	NG	Ex	Health_post2020	Water_Heat	7,728.77	7,724.65	7,728.01	7,728.59	7,727.46	7,726.98
UEC	SoCal	NG	Ex	Health_pre2021	AC_Compressor	2,195.38	2,194.21	2,195.16	2,195.32	2,195.00	2,194.87
UEC	SoCal	NG	Ex	Health_pre2021	Cook_top	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	Ex	Health_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_pre2021	Drying	2,817.34	2,815.84	2,817.07	2,817.28	2,816.87	2,816.69
UEC	SoCal	NG	Ex	Health_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_pre2021	Fryer	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	Ex	Health_pre2021	Griddle	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	Ex	Health_pre2021	Other	274.69	274.54	274.66	274.68	274.64	274.63
UEC	SoCal	NG	Ex	Health_pre2021	Other_Cooking	509.50	509.22	509.45	509.48	509.41	509.38
UEC	SoCal	NG	Ex	Health_pre2021	Space_Heat	1,324.36	1,323.65	1,324.23	1,324.33	1,324.13	1,324.05
UEC	SoCal	NG	Ex	Health_pre2021	Water_Heat	7,728.77	7,724.65	7,728.01	7,728.59	7,727.46	7,726.98
UEC	SoCal	NG	Ex	Laundry_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Drying	18,607.74	18,593.03	18,605.02	18,607.07	18,603.06	18,601.35
UEC	SoCal	NG	Ex	Laundry_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Other	692.33	691.78	692.23	692.30	692.15	692.09
UEC	SoCal	NG	Ex	Laundry_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Space_Heat	181.77	181.63	181.75	181.77	181.73	181.71
UEC	SoCal	NG	Ex	Laundry_post2020	Water_Heat	3,301.84	3,299.23	3,301.36	3,301.72	3,301.01	3,300.71
UEC	SoCal	NG	Ex	Laundry_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Drying	18,607.74	18,593.03	18,605.02	18,607.07	18,603.06	18,601.35

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	Laundry_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Other	670.95	670.42	670.85	670.92	670.78	670.72
UEC	SoCal	NG	Ex	Laundry_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Space_Heat	181.77	181.63	181.75	181.77	181.73	181.71
UEC	SoCal	NG	Ex	Laundry_pre2021	Water_Heat	3,301.84	3,299.23	3,301.36	3,301.72	3,301.01	3,300.71
UEC	SoCal	NG	Ex	Lodging_post2020	AC_Compressor	765.87	765.17	765.74	765.84	765.65	765.56
UEC	SoCal	NG	Ex	Lodging_post2020	Cook_top	4,332.77	4,328.82	4,332.04	4,332.59	4,331.51	4,331.05
UEC	SoCal	NG	Ex	Lodging_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Drying	2,323.88	2,321.76	2,323.49	2,323.79	2,323.21	2,322.96
UEC	SoCal	NG	Ex	Lodging_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Fryer	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	Ex	Lodging_post2020	Griddle	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	Ex	Lodging_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Other_Cooking	560.03	559.52	559.94	560.01	559.87	559.81
UEC	SoCal	NG	Ex	Lodging_post2020	Space_Heat	5,189.51	5,184.78	5,188.64	5,189.30	5,188.00	5,187.46
UEC	SoCal	NG	Ex	Lodging_post2020	Water_Heat	9,454.00	9,445.37	9,452.40	9,453.60	9,451.25	9,450.25
UEC	SoCal	NG	Ex	Lodging_pre2021	AC_Compressor	765.87	765.17	765.74	765.84	765.65	765.56
UEC	SoCal	NG	Ex	Lodging_pre2021	Cook_top	4,332.77	4,328.82	4,332.04	4,332.59	4,331.51	4,331.05
UEC	SoCal	NG	Ex	Lodging_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Drying	2,323.88	2,321.76	2,323.49	2,323.79	2,323.21	2,322.96
UEC	SoCal	NG	Ex	Lodging_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Fryer	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	Ex	Lodging_pre2021	Griddle	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	Ex	Lodging_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Other_Cooking	560.03	559.52	559.94	560.01	559.87	559.81
UEC	SoCal	NG	Ex	Lodging_pre2021	Space_Heat	5,189.51	5,184.78	5,188.64	5,189.30	5,188.00	5,187.46
UEC	SoCal	NG	Ex	Lodging_pre2021	Water_Heat	9,289.95	9,281.47	9,288.38	9,289.56	9,287.25	9,286.27
UEC	SoCal	NG	Ex	Misc_post2020	AC_Compressor	3,264.20	3,257.72	3,263.00	3,263.90	3,262.13	3,261.38

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**G-10 UEC's**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	Misc_post2020	Cook_top	1,808.76	1,805.16	1,808.09	1,808.59	1,807.61	1,807.19
UEC	SoCal	NG	Ex	Misc_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_post2020	Engine	60,586.30	60,465.93	60,563.92	60,580.69	60,547.85	60,533.88
UEC	SoCal	NG	Ex	Misc_post2020	Fryer	285.15	284.59	285.05	285.13	284.97	284.91
UEC	SoCal	NG	Ex	Misc_post2020	Griddle	794.08	792.51	793.79	794.01	793.58	793.40
UEC	SoCal	NG	Ex	Misc_post2020	Other	660.75	659.43	660.50	660.69	660.33	660.17
UEC	SoCal	NG	Ex	Misc_post2020	Other_Cooking	309.77	309.15	309.66	309.74	309.57	309.50
UEC	SoCal	NG	Ex	Misc_post2020	Space_Heat	1,390.18	1,387.42	1,389.66	1,390.05	1,389.29	1,388.97
UEC	SoCal	NG	Ex	Misc_post2020	Water_Heat	2,566.05	2,560.96	2,565.11	2,565.82	2,564.42	2,563.83
UEC	SoCal	NG	Ex	Misc_pre2021	AC_Compressor	2,288.56	2,284.02	2,287.72	2,288.35	2,287.11	2,286.58
UEC	SoCal	NG	Ex	Misc_pre2021	Cook_top	808.50	806.89	808.20	808.42	807.98	807.80
UEC	SoCal	NG	Ex	Misc_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_pre2021	Engine	59,633.86	59,515.38	59,611.83	59,628.34	59,596.01	59,582.26
UEC	SoCal	NG	Ex	Misc_pre2021	Fryer	790.20	788.63	789.91	790.12	789.70	789.51
UEC	SoCal	NG	Ex	Misc_pre2021	Griddle	803.40	801.80	803.10	803.32	802.89	802.70
UEC	SoCal	NG	Ex	Misc_pre2021	Other	116.91	116.67	116.86	116.90	116.83	116.80
UEC	SoCal	NG	Ex	Misc_pre2021	Other_Cooking	789.53	787.96	789.24	789.45	789.03	788.84
UEC	SoCal	NG	Ex	Misc_pre2021	Space_Heat	3,126.51	3,120.30	3,125.36	3,126.22	3,124.53	3,123.81
UEC	SoCal	NG	Ex	Misc_pre2021	Water_Heat	3,017.62	3,011.62	3,016.50	3,017.34	3,015.70	3,015.01
UEC	SoCal	NG	Ex	Office_post2020	AC_Compressor	715.56	713.18	715.11	715.44	714.79	714.52
UEC	SoCal	NG	Ex	Office_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Cooking	226.05	225.29	225.90	226.01	225.80	225.72
UEC	SoCal	NG	Ex	Office_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Other	80.16	79.90	80.11	80.15	80.08	80.05
UEC	SoCal	NG	Ex	Office_post2020	Other_Cooking	-	-	-	-	-	-

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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	Office_post2020	Space_Heat	2,081.82	2,074.90	2,080.53	2,081.49	2,079.60	2,078.80
UEC	SoCal	NG	Ex	Office_post2020	Water_Heat	312.30	311.26	312.11	312.25	311.97	311.85
UEC	SoCal	NG	Ex	Office_pre2021	AC_Compressor	715.56	713.18	715.11	715.44	714.79	714.52
UEC	SoCal	NG	Ex	Office_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Cooking	226.05	225.29	225.90	226.01	225.80	225.72
UEC	SoCal	NG	Ex	Office_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Other	81.70	81.43	81.65	81.69	81.61	81.58
UEC	SoCal	NG	Ex	Office_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Space_Heat	2,081.82	2,074.90	2,080.53	2,081.49	2,079.60	2,078.80
UEC	SoCal	NG	Ex	Office_pre2021	Water_Heat	312.30	311.26	312.11	312.25	311.97	311.85
UEC	SoCal	NG	Ex	Restaurant_post2020	AC_Compressor	314.08	313.79	314.03	314.07	313.99	313.95
UEC	SoCal	NG	Ex	Restaurant_post2020	Cook_top	1,855.32	1,853.60	1,855.01	1,855.25	1,854.78	1,854.58
UEC	SoCal	NG	Ex	Restaurant_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Fryer	1,670.63	1,669.08	1,670.34	1,670.56	1,670.14	1,669.96
UEC	SoCal	NG	Ex	Restaurant_post2020	Griddle	1,409.81	1,408.50	1,409.57	1,409.75	1,409.39	1,409.24
UEC	SoCal	NG	Ex	Restaurant_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Other_Cooking	1,503.55	1,502.16	1,503.30	1,503.49	1,503.11	1,502.95
UEC	SoCal	NG	Ex	Restaurant_post2020	Space_Heat	181.41	181.24	181.38	181.40	181.36	181.34
UEC	SoCal	NG	Ex	Restaurant_post2020	Water_Heat	1,288.10	1,286.91	1,287.88	1,288.05	1,287.72	1,287.58
UEC	SoCal	NG	Ex	Restaurant_pre2021	AC_Compressor	314.08	313.79	314.03	314.07	313.99	313.95
UEC	SoCal	NG	Ex	Restaurant_pre2021	Cook_top	1,931.72	1,929.92	1,931.39	1,931.64	1,931.15	1,930.94
UEC	SoCal	NG	Ex	Restaurant_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Fryer	1,670.63	1,669.08	1,670.34	1,670.56	1,670.14	1,669.96



**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	Restaurant_pre2021	Griddle	1,457.42	1,456.07	1,457.17	1,457.36	1,456.99	1,456.83
UEC	SoCal	NG	Ex	Restaurant_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Other_Cooking	1,503.55	1,502.16	1,503.30	1,503.49	1,503.11	1,502.95
UEC	SoCal	NG	Ex	Restaurant_pre2021	Space_Heat	181.41	181.24	181.38	181.40	181.36	181.34
UEC	SoCal	NG	Ex	Restaurant_pre2021	Water_Heat	1,288.10	1,286.91	1,287.88	1,288.05	1,287.72	1,287.58
UEC	SoCal	NG	Ex	Retail_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Cooking	5,881.31	5,874.42	5,880.03	5,880.99	5,879.11	5,878.31
UEC	SoCal	NG	Ex	Retail_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Other	87.85	87.75	87.83	87.84	87.82	87.80
UEC	SoCal	NG	Ex	Retail_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Space_Heat	4,665.43	4,659.97	4,664.42	4,665.18	4,663.69	4,663.06
UEC	SoCal	NG	Ex	Retail_post2020	Water_Heat	2,003.54	2,001.19	2,003.10	2,003.43	2,002.79	2,002.52
UEC	SoCal	NG	Ex	Retail_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Cooking	5,881.31	5,874.42	5,880.03	5,880.99	5,879.11	5,878.31
UEC	SoCal	NG	Ex	Retail_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Other	92.51	92.40	92.49	92.51	92.48	92.47
UEC	SoCal	NG	Ex	Retail_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Space_Heat	4,665.43	4,659.97	4,664.42	4,665.18	4,663.69	4,663.06
UEC	SoCal	NG	Ex	Retail_pre2021	Water_Heat	2,003.54	2,001.19	2,003.10	2,003.43	2,002.79	2,002.52
UEC	SoCal	NG	Ex	EDUCATION_post2020	AC_Compressor	3,760.36	3,745.29	3,757.53	3,759.63	3,755.52	3,753.77
UEC	SoCal	NG	Ex	EDUCATION_post2020	Cook_top	1,755.69	1,748.65	1,754.37	1,755.35	1,753.43	1,752.61
UEC	SoCal	NG	Ex	EDUCATION_post2020	Cooking	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	Ex	EDUCATION_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Fryer	1,757.46	1,750.42	1,756.14	1,757.12	1,755.20	1,754.38
UEC	SoCal	NG	Ex	EDUCATION_post2020	Griddle	1,757.46	1,750.42	1,756.14	1,757.12	1,755.20	1,754.38
UEC	SoCal	NG	Ex	EDUCATION_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Other_Cooking	1,755.69	1,748.65	1,754.37	1,755.35	1,753.43	1,752.61
UEC	SoCal	NG	Ex	EDUCATION_post2020	Space_Heat	7,373.21	7,343.67	7,367.67	7,371.79	7,363.73	7,360.30
UEC	SoCal	NG	Ex	EDUCATION_post2020	Water_Heat	9,287.82	9,250.60	9,280.84	9,286.03	9,275.87	9,271.55
UEC	SoCal	NG	Ex	EDUCATION_pre2021	AC_Compressor	3,013.88	3,001.80	3,011.62	3,013.30	3,010.00	3,008.60
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Cook_top	1,779.50	1,772.37	1,778.16	1,779.16	1,777.21	1,776.38
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Fryer	1,782.37	1,775.22	1,781.03	1,782.02	1,780.07	1,779.25
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Griddle	1,782.37	1,775.22	1,781.03	1,782.02	1,780.07	1,779.25
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Other_Cooking	1,779.50	1,772.37	1,778.16	1,779.16	1,777.21	1,776.38
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Space_Heat	4,279.91	4,262.76	4,276.69	4,279.08	4,274.40	4,272.41
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Water_Heat	5,530.75	5,508.58	5,526.59	5,529.68	5,523.63	5,521.06
UEC	SoCal	NG	New	Agriculture_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Drying	17,023.25	16,947.09	17,008.94	17,019.54	16,998.76	16,989.93
UEC	SoCal	NG	New	Agriculture_post2020	Engine	73,195.35	72,867.88	73,133.81	73,179.41	73,090.07	73,052.09
UEC	SoCal	NG	New	Agriculture_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Other	800.50	796.91	799.82	800.32	799.34	798.93
UEC	SoCal	NG	New	Agriculture_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Space_Heat	12,354.37	12,299.10	12,343.99	12,351.68	12,336.60	12,330.19
UEC	SoCal	NG	New	Agriculture_post2020	Water_Heat	16,337.94	16,264.84	16,324.20	16,334.38	16,314.44	16,305.96

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	Agriculture_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Drying	18,133.61	18,052.48	18,118.36	18,129.66	18,107.53	18,098.12
UEC	SoCal	NG	New	Agriculture_pre2021	Engine	73,195.35	72,867.88	73,133.81	73,179.41	73,090.07	73,052.09
UEC	SoCal	NG	New	Agriculture_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Other	852.71	848.89	851.99	852.52	851.48	851.04
UEC	SoCal	NG	New	Agriculture_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Space_Heat	12,354.37	12,299.10	12,343.99	12,351.68	12,336.60	12,330.19
UEC	SoCal	NG	New	Agriculture_pre2021	Water_Heat	16,337.94	16,264.84	16,324.20	16,334.38	16,314.44	16,305.96
UEC	SoCal	NG	New	Health_post2020	AC_Compressor	2,195.38	2,194.21	2,195.16	2,195.32	2,195.00	2,194.87
UEC	SoCal	NG	New	Health_post2020	Cook_top	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	New	Health_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_post2020	Drying	2,817.34	2,815.84	2,817.07	2,817.28	2,816.87	2,816.69
UEC	SoCal	NG	New	Health_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_post2020	Fryer	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	New	Health_post2020	Griddle	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	New	Health_post2020	Other	260.19	260.05	260.17	260.19	260.15	260.13
UEC	SoCal	NG	New	Health_post2020	Other_Cooking	509.50	509.22	509.45	509.48	509.41	509.38
UEC	SoCal	NG	New	Health_post2020	Space_Heat	1,324.36	1,323.65	1,324.23	1,324.33	1,324.13	1,324.05
UEC	SoCal	NG	New	Health_post2020	Water_Heat	7,728.77	7,724.65	7,728.01	7,728.59	7,727.46	7,726.98
UEC	SoCal	NG	New	Health_pre2021	AC_Compressor	2,195.38	2,194.21	2,195.16	2,195.32	2,195.00	2,194.87
UEC	SoCal	NG	New	Health_pre2021	Cook_top	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	New	Health_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_pre2021	Drying	2,817.34	2,815.84	2,817.07	2,817.28	2,816.87	2,816.69
UEC	SoCal	NG	New	Health_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_pre2021	Fryer	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	New	Health_pre2021	Griddle	5,078.24	5,075.53	5,077.74	5,078.12	5,077.38	5,077.06
UEC	SoCal	NG	New	Health_pre2021	Other	274.69	274.54	274.66	274.68	274.64	274.63

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	Health_pre2021	Other_Cooking	509.50	509.22	509.45	509.48	509.41	509.38
UEC	SoCal	NG	New	Health_pre2021	Space_Heat	1,324.36	1,323.65	1,324.23	1,324.33	1,324.13	1,324.05
UEC	SoCal	NG	New	Health_pre2021	Water_Heat	7,728.77	7,724.65	7,728.01	7,728.59	7,727.46	7,726.98
UEC	SoCal	NG	New	Laundry_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Drying	18,607.74	18,593.03	18,605.02	18,607.07	18,603.06	18,601.35
UEC	SoCal	NG	New	Laundry_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Other	692.33	691.78	692.23	692.30	692.15	692.09
UEC	SoCal	NG	New	Laundry_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Space_Heat	181.77	181.63	181.75	181.77	181.73	181.71
UEC	SoCal	NG	New	Laundry_post2020	Water_Heat	3,301.84	3,299.23	3,301.36	3,301.72	3,301.01	3,300.71
UEC	SoCal	NG	New	Laundry_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Drying	18,607.74	18,593.03	18,605.02	18,607.07	18,603.06	18,601.35
UEC	SoCal	NG	New	Laundry_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Other	670.95	670.42	670.85	670.92	670.78	670.72
UEC	SoCal	NG	New	Laundry_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Space_Heat	181.77	181.63	181.75	181.77	181.73	181.71
UEC	SoCal	NG	New	Laundry_pre2021	Water_Heat	3,301.84	3,299.23	3,301.36	3,301.72	3,301.01	3,300.71
UEC	SoCal	NG	New	Lodging_post2020	AC_Compressor	765.87	765.17	765.74	765.84	765.65	765.56
UEC	SoCal	NG	New	Lodging_post2020	Cook_top	4,332.77	4,328.82	4,332.04	4,332.59	4,331.51	4,331.05
UEC	SoCal	NG	New	Lodging_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_post2020	Drying	2,323.88	2,321.76	2,323.49	2,323.79	2,323.21	2,322.96
UEC	SoCal	NG	New	Lodging_post2020	Engine	-	-	-	-	-	-

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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	Lodging_post2020	Fryer	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	New	Lodging_post2020	Griddle	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	New	Lodging_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_post2020	Other_Cooking	560.03	559.52	559.94	560.01	559.87	559.81
UEC	SoCal	NG	New	Lodging_post2020	Space_Heat	5,189.51	5,184.78	5,188.64	5,189.30	5,188.00	5,187.46
UEC	SoCal	NG	New	Lodging_post2020	Water_Heat	9,454.00	9,445.37	9,452.40	9,453.60	9,451.25	9,450.25
UEC	SoCal	NG	New	Lodging_pre2021	AC_Compressor	765.87	765.17	765.74	765.84	765.65	765.56
UEC	SoCal	NG	New	Lodging_pre2021	Cook_top	4,332.77	4,328.82	4,332.04	4,332.59	4,331.51	4,331.05
UEC	SoCal	NG	New	Lodging_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Drying	2,323.88	2,321.76	2,323.49	2,323.79	2,323.21	2,322.96
UEC	SoCal	NG	New	Lodging_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Fryer	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	New	Lodging_pre2021	Griddle	5,638.72	5,633.58	5,637.77	5,638.48	5,637.08	5,636.48
UEC	SoCal	NG	New	Lodging_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Other_Cooking	560.03	559.52	559.94	560.01	559.87	559.81
UEC	SoCal	NG	New	Lodging_pre2021	Space_Heat	5,189.51	5,184.78	5,188.64	5,189.30	5,188.00	5,187.46
UEC	SoCal	NG	New	Lodging_pre2021	Water_Heat	9,289.95	9,281.47	9,288.38	9,289.56	9,287.25	9,286.27
UEC	SoCal	NG	New	Misc_post2020	AC_Compressor	3,264.20	3,257.72	3,263.00	3,263.90	3,262.13	3,261.38
UEC	SoCal	NG	New	Misc_post2020	Cook_top	1,808.76	1,805.16	1,808.09	1,808.59	1,807.61	1,807.19
UEC	SoCal	NG	New	Misc_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_post2020	Engine	60,586.30	60,465.93	60,563.92	60,580.69	60,547.85	60,533.88
UEC	SoCal	NG	New	Misc_post2020	Fryer	285.15	284.59	285.05	285.13	284.97	284.91
UEC	SoCal	NG	New	Misc_post2020	Griddle	794.08	792.51	793.79	794.01	793.58	793.40
UEC	SoCal	NG	New	Misc_post2020	Other	660.75	659.43	660.50	660.69	660.33	660.17
UEC	SoCal	NG	New	Misc_post2020	Other_Cooking	309.77	309.15	309.66	309.74	309.57	309.50
UEC	SoCal	NG	New	Misc_post2020	Space_Heat	1,390.18	1,387.42	1,389.66	1,390.05	1,389.29	1,388.97
UEC	SoCal	NG	New	Misc_post2020	Water_Heat	2,566.05	2,560.96	2,565.11	2,565.82	2,564.42	2,563.83
UEC	SoCal	NG	New	Misc_pre2021	AC_Compressor	2,288.56	2,284.02	2,287.72	2,288.35	2,287.11	2,286.58
UEC	SoCal	NG	New	Misc_pre2021	Cook_top	808.50	806.89	808.20	808.42	807.98	807.80

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	Misc_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_pre2021	Engine	59,633.86	59,515.38	59,611.83	59,628.34	59,596.01	59,582.26
UEC	SoCal	NG	New	Misc_pre2021	Fryer	790.20	788.63	789.91	790.12	789.70	789.51
UEC	SoCal	NG	New	Misc_pre2021	Griddle	803.40	801.80	803.10	803.32	802.89	802.70
UEC	SoCal	NG	New	Misc_pre2021	Other	116.91	116.67	116.86	116.90	116.83	116.80
UEC	SoCal	NG	New	Misc_pre2021	Other_Cooking	789.53	787.96	789.24	789.45	789.03	788.84
UEC	SoCal	NG	New	Misc_pre2021	Space_Heat	3,126.51	3,120.30	3,125.36	3,126.22	3,124.53	3,123.81
UEC	SoCal	NG	New	Misc_pre2021	Water_Heat	3,017.62	3,011.62	3,016.50	3,017.34	3,015.70	3,015.01
UEC	SoCal	NG	New	Office_post2020	AC_Compressor	715.56	713.18	715.11	715.44	714.79	714.52
UEC	SoCal	NG	New	Office_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Cooking	226.05	225.29	225.90	226.01	225.80	225.72
UEC	SoCal	NG	New	Office_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Other	80.16	79.90	80.11	80.15	80.08	80.05
UEC	SoCal	NG	New	Office_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Space_Heat	2,081.82	2,074.90	2,080.53	2,081.49	2,079.60	2,078.80
UEC	SoCal	NG	New	Office_post2020	Water_Heat	312.30	311.26	312.11	312.25	311.97	311.85
UEC	SoCal	NG	New	Office_pre2021	AC_Compressor	715.56	713.18	715.11	715.44	714.79	714.52
UEC	SoCal	NG	New	Office_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Cooking	226.05	225.29	225.90	226.01	225.80	225.72
UEC	SoCal	NG	New	Office_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Other	81.70	81.43	81.65	81.69	81.61	81.58
UEC	SoCal	NG	New	Office_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Space_Heat	2,081.82	2,074.90	2,080.53	2,081.49	2,079.60	2,078.80

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	Office_pre2021	Water_Heat	312.30	311.26	312.11	312.25	311.97	311.85
UEC	SoCal	NG	New	Restaurant_post2020	AC_Compressor	314.08	313.79	314.03	314.07	313.99	313.95
UEC	SoCal	NG	New	Restaurant_post2020	Cook_top	1,855.32	1,853.60	1,855.01	1,855.25	1,854.78	1,854.58
UEC	SoCal	NG	New	Restaurant_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Fryer	1,670.63	1,669.08	1,670.34	1,670.56	1,670.14	1,669.96
UEC	SoCal	NG	New	Restaurant_post2020	Griddle	1,409.81	1,408.50	1,409.57	1,409.75	1,409.39	1,409.24
UEC	SoCal	NG	New	Restaurant_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Other_Cooking	1,503.55	1,502.16	1,503.30	1,503.49	1,503.11	1,502.95
UEC	SoCal	NG	New	Restaurant_post2020	Space_Heat	181.41	181.24	181.38	181.40	181.36	181.34
UEC	SoCal	NG	New	Restaurant_post2020	Water_Heat	1,288.10	1,286.91	1,287.88	1,288.05	1,287.72	1,287.58
UEC	SoCal	NG	New	Restaurant_pre2021	AC_Compressor	314.08	313.79	314.03	314.07	313.99	313.95
UEC	SoCal	NG	New	Restaurant_pre2021	Cook_top	1,931.72	1,929.92	1,931.39	1,931.64	1,931.15	1,930.94
UEC	SoCal	NG	New	Restaurant_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Fryer	1,670.63	1,669.08	1,670.34	1,670.56	1,670.14	1,669.96
UEC	SoCal	NG	New	Restaurant_pre2021	Griddle	1,457.42	1,456.07	1,457.17	1,457.36	1,456.99	1,456.83
UEC	SoCal	NG	New	Restaurant_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Other_Cooking	1,503.55	1,502.16	1,503.30	1,503.49	1,503.11	1,502.95
UEC	SoCal	NG	New	Restaurant_pre2021	Space_Heat	181.41	181.24	181.38	181.40	181.36	181.34
UEC	SoCal	NG	New	Restaurant_pre2021	Water_Heat	1,288.10	1,286.91	1,287.88	1,288.05	1,287.72	1,287.58
UEC	SoCal	NG	New	Retail_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Cooking	5,881.31	5,874.42	5,880.03	5,880.99	5,879.11	5,878.31
UEC	SoCal	NG	New	Retail_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Griddle	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	Retail_post2020	Other	87.85	87.75	87.83	87.84	87.82	87.80
UEC	SoCal	NG	New	Retail_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Space_Heat	4,665.43	4,659.97	4,664.42	4,665.18	4,663.69	4,663.06
UEC	SoCal	NG	New	Retail_post2020	Water_Heat	2,003.54	2,001.19	2,003.10	2,003.43	2,002.79	2,002.52
UEC	SoCal	NG	New	Retail_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Cooking	5,881.31	5,874.42	5,880.03	5,880.99	5,879.11	5,878.31
UEC	SoCal	NG	New	Retail_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Other	92.51	92.40	92.49	92.51	92.48	92.47
UEC	SoCal	NG	New	Retail_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Space_Heat	4,665.43	4,659.97	4,664.42	4,665.18	4,663.69	4,663.06
UEC	SoCal	NG	New	Retail_pre2021	Water_Heat	2,003.54	2,001.19	2,003.10	2,003.43	2,002.79	2,002.52
UEC	SoCal	NG	New	EDUCATION_post2020	AC_Compressor	3,760.36	3,745.29	3,757.53	3,759.63	3,755.52	3,753.77
UEC	SoCal	NG	New	EDUCATION_post2020	Cook_top	1,755.69	1,748.65	1,754.37	1,755.35	1,753.43	1,752.61
UEC	SoCal	NG	New	EDUCATION_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Fryer	1,757.46	1,750.42	1,756.14	1,757.12	1,755.20	1,754.38
UEC	SoCal	NG	New	EDUCATION_post2020	Griddle	1,757.46	1,750.42	1,756.14	1,757.12	1,755.20	1,754.38
UEC	SoCal	NG	New	EDUCATION_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Other_Cooking	1,755.69	1,748.65	1,754.37	1,755.35	1,753.43	1,752.61
UEC	SoCal	NG	New	EDUCATION_post2020	Space_Heat	7,373.21	7,343.67	7,367.67	7,371.79	7,363.73	7,360.30
UEC	SoCal	NG	New	EDUCATION_post2020	Water_Heat	9,287.82	9,250.60	9,280.84	9,286.03	9,275.87	9,271.55
UEC	SoCal	NG	New	EDUCATION_pre2021	AC_Compressor	3,013.88	3,001.80	3,011.62	3,013.30	3,010.00	3,008.60
UEC	SoCal	NG	New	EDUCATION_pre2021	Cook_top	1,779.50	1,772.37	1,778.16	1,779.16	1,777.21	1,776.38
UEC	SoCal	NG	New	EDUCATION_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Drying	-	-	-	-	-	-



**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2029	2030	2031	2032	2033	2034
UEC	SoCal	NG	New	EDUCATION_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Fryer	1,782.37	1,775.22	1,781.03	1,782.02	1,780.07	1,779.25
UEC	SoCal	NG	New	EDUCATION_pre2021	Griddle	1,782.37	1,775.22	1,781.03	1,782.02	1,780.07	1,779.25
UEC	SoCal	NG	New	EDUCATION_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Other_Cooking	1,779.50	1,772.37	1,778.16	1,779.16	1,777.21	1,776.38
UEC	SoCal	NG	New	EDUCATION_pre2021	Space_Heat	4,279.91	4,262.76	4,276.69	4,279.08	4,274.40	4,272.41
UEC	SoCal	NG	New	EDUCATION_pre2021	Water_Heat	5,530.75	5,508.58	5,526.59	5,529.68	5,523.63	5,521.06

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	Agriculture_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Drying	17,024.06	17,024.27	16,999.76	16,999.98	17,009.55	17,007.93
UEC	SoCal	NG	Ex	Agriculture_post2020	Engine	73,198.85	73,199.76	73,094.36	73,095.29	73,136.44	73,129.48
UEC	SoCal	NG	Ex	Agriculture_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Other	800.53	800.54	799.39	799.40	799.85	799.78
UEC	SoCal	NG	Ex	Agriculture_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_post2020	Space_Heat	12,354.96	12,355.12	12,337.33	12,337.48	12,344.43	12,343.26
UEC	SoCal	NG	Ex	Agriculture_post2020	Water_Heat	16,338.72	16,338.92	16,315.39	16,315.60	16,324.78	16,323.23
UEC	SoCal	NG	Ex	Agriculture_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Drying	18,134.48	18,134.70	18,108.59	18,108.82	18,119.02	18,117.29
UEC	SoCal	NG	Ex	Agriculture_pre2021	Engine	73,198.85	73,199.76	73,094.36	73,095.29	73,136.44	73,129.48
UEC	SoCal	NG	Ex	Agriculture_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Other	852.75	852.76	851.53	851.54	852.02	851.94
UEC	SoCal	NG	Ex	Agriculture_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Agriculture_pre2021	Space_Heat	12,354.96	12,355.12	12,337.33	12,337.48	12,344.43	12,343.26
UEC	SoCal	NG	Ex	Agriculture_pre2021	Water_Heat	16,338.72	16,338.92	16,315.39	16,315.60	16,324.78	16,323.23
UEC	SoCal	NG	Ex	Health_post2020	AC_Compressor	2,195.39	2,195.40	2,195.02	2,195.02	2,195.17	2,195.15
UEC	SoCal	NG	Ex	Health_post2020	Cook_top	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	Ex	Health_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_post2020	Drying	2,817.37	2,817.37	2,816.89	2,816.89	2,817.08	2,817.05
UEC	SoCal	NG	Ex	Health_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_post2020	Fryer	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	Ex	Health_post2020	Griddle	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	Health_post2020	Other	260.19	260.19	260.15	260.15	260.17	260.16
UEC	SoCal	NG	Ex	Health_post2020	Other_Cooking	509.50	509.50	509.41	509.41	509.45	509.44
UEC	SoCal	NG	Ex	Health_post2020	Space_Heat	1,324.37	1,324.37	1,324.14	1,324.15	1,324.23	1,324.22
UEC	SoCal	NG	Ex	Health_post2020	Water_Heat	7,728.83	7,728.85	7,727.52	7,727.53	7,728.05	7,727.96
UEC	SoCal	NG	Ex	Health_pre2021	AC_Compressor	2,195.39	2,195.40	2,195.02	2,195.02	2,195.17	2,195.15
UEC	SoCal	NG	Ex	Health_pre2021	Cook_top	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	Ex	Health_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_pre2021	Drying	2,817.37	2,817.37	2,816.89	2,816.89	2,817.08	2,817.05
UEC	SoCal	NG	Ex	Health_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Health_pre2021	Fryer	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	Ex	Health_pre2021	Griddle	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	Ex	Health_pre2021	Other	274.69	274.69	274.64	274.65	274.66	274.66
UEC	SoCal	NG	Ex	Health_pre2021	Other_Cooking	509.50	509.50	509.41	509.41	509.45	509.44
UEC	SoCal	NG	Ex	Health_pre2021	Space_Heat	1,324.37	1,324.37	1,324.14	1,324.15	1,324.23	1,324.22
UEC	SoCal	NG	Ex	Health_pre2021	Water_Heat	7,728.83	7,728.85	7,727.52	7,727.53	7,728.05	7,727.96
UEC	SoCal	NG	Ex	Laundry_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Drying	18,607.96	18,608.00	18,603.26	18,603.30	18,605.15	18,604.84
UEC	SoCal	NG	Ex	Laundry_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Other	692.34	692.34	692.16	692.16	692.23	692.22
UEC	SoCal	NG	Ex	Laundry_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_post2020	Space_Heat	181.78	181.78	181.73	181.73	181.75	181.75
UEC	SoCal	NG	Ex	Laundry_post2020	Water_Heat	3,301.88	3,301.89	3,301.05	3,301.05	3,301.38	3,301.33
UEC	SoCal	NG	Ex	Laundry_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Drying	18,607.96	18,608.00	18,603.26	18,603.30	18,605.15	18,604.84

**Southern California Gas Company**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	Laundry_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Other	670.95	670.96	670.79	670.79	670.85	670.84
UEC	SoCal	NG	Ex	Laundry_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Laundry_pre2021	Space_Heat	181.78	181.78	181.73	181.73	181.75	181.75
UEC	SoCal	NG	Ex	Laundry_pre2021	Water_Heat	3,301.88	3,301.89	3,301.05	3,301.05	3,301.38	3,301.33
UEC	SoCal	NG	Ex	Lodging_post2020	AC_Compressor	765.88	765.88	765.65	765.66	765.74	765.73
UEC	SoCal	NG	Ex	Lodging_post2020	Cook_top	4,332.83	4,332.84	4,331.56	4,331.58	4,332.07	4,331.99
UEC	SoCal	NG	Ex	Lodging_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Drying	2,323.91	2,323.92	2,323.24	2,323.24	2,323.51	2,323.46
UEC	SoCal	NG	Ex	Lodging_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Fryer	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	Ex	Lodging_post2020	Griddle	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	Ex	Lodging_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_post2020	Other_Cooking	560.04	560.04	559.88	559.88	559.94	559.93
UEC	SoCal	NG	Ex	Lodging_post2020	Space_Heat	5,189.58	5,189.59	5,188.07	5,188.08	5,188.68	5,188.58
UEC	SoCal	NG	Ex	Lodging_post2020	Water_Heat	9,454.12	9,454.14	9,451.37	9,451.39	9,452.48	9,452.29
UEC	SoCal	NG	Ex	Lodging_pre2021	AC_Compressor	765.88	765.88	765.65	765.66	765.74	765.73
UEC	SoCal	NG	Ex	Lodging_pre2021	Cook_top	4,332.83	4,332.84	4,331.56	4,331.58	4,332.07	4,331.99
UEC	SoCal	NG	Ex	Lodging_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Drying	2,323.91	2,323.92	2,323.24	2,323.24	2,323.51	2,323.46
UEC	SoCal	NG	Ex	Lodging_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Fryer	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	Ex	Lodging_pre2021	Griddle	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	Ex	Lodging_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Lodging_pre2021	Other_Cooking	560.04	560.04	559.88	559.88	559.94	559.93
UEC	SoCal	NG	Ex	Lodging_pre2021	Space_Heat	5,189.58	5,189.59	5,188.07	5,188.08	5,188.68	5,188.58
UEC	SoCal	NG	Ex	Lodging_pre2021	Water_Heat	9,290.07	9,290.09	9,287.36	9,287.39	9,288.45	9,288.27
UEC	SoCal	NG	Ex	Misc_post2020	AC_Compressor	3,264.29	3,264.30	3,262.22	3,262.24	3,263.05	3,262.91

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	Misc_post2020	Cook_top	1,808.80	1,808.81	1,807.66	1,807.67	1,808.12	1,808.04
UEC	SoCal	NG	Ex	Misc_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_post2020	Engine	60,587.88	60,588.22	60,549.47	60,549.81	60,564.95	60,562.40
UEC	SoCal	NG	Ex	Misc_post2020	Fryer	285.16	285.16	284.98	284.98	285.05	285.04
UEC	SoCal	NG	Ex	Misc_post2020	Griddle	794.10	794.11	793.60	793.60	793.80	793.77
UEC	SoCal	NG	Ex	Misc_post2020	Other	660.76	660.77	660.35	660.35	660.51	660.49
UEC	SoCal	NG	Ex	Misc_post2020	Other_Cooking	309.78	309.78	309.58	309.58	309.66	309.65
UEC	SoCal	NG	Ex	Misc_post2020	Space_Heat	1,390.21	1,390.22	1,389.33	1,389.34	1,389.69	1,389.63
UEC	SoCal	NG	Ex	Misc_post2020	Water_Heat	2,566.12	2,566.13	2,564.49	2,564.51	2,565.15	2,565.04
UEC	SoCal	NG	Ex	Misc_pre2021	AC_Compressor	2,288.62	2,288.64	2,287.17	2,287.19	2,287.76	2,287.66
UEC	SoCal	NG	Ex	Misc_pre2021	Cook_top	808.52	808.52	808.01	808.01	808.21	808.18
UEC	SoCal	NG	Ex	Misc_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Misc_pre2021	Engine	59,635.42	59,635.75	59,597.61	59,597.95	59,612.85	59,610.33
UEC	SoCal	NG	Ex	Misc_pre2021	Fryer	790.22	790.22	789.72	789.72	789.92	789.89
UEC	SoCal	NG	Ex	Misc_pre2021	Griddle	803.42	803.42	802.91	802.91	803.12	803.08
UEC	SoCal	NG	Ex	Misc_pre2021	Other	116.91	116.91	116.83	116.84	116.86	116.86
UEC	SoCal	NG	Ex	Misc_pre2021	Other_Cooking	789.55	789.55	789.05	789.05	789.25	789.22
UEC	SoCal	NG	Ex	Misc_pre2021	Space_Heat	3,126.59	3,126.61	3,124.61	3,124.63	3,125.41	3,125.28
UEC	SoCal	NG	Ex	Misc_pre2021	Water_Heat	3,017.70	3,017.71	3,015.78	3,015.80	3,016.55	3,016.43
UEC	SoCal	NG	Ex	Office_post2020	AC_Compressor	715.58	715.59	714.82	714.83	715.13	715.08
UEC	SoCal	NG	Ex	Office_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Cooking	226.05	226.06	225.81	225.82	225.91	225.90
UEC	SoCal	NG	Ex	Office_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_post2020	Other	80.17	80.17	80.08	80.08	80.12	80.11
UEC	SoCal	NG	Ex	Office_post2020	Other_Cooking	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/Ne	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	Office_post2020	Space_Heat	2,081.90	2,081.92	2,079.69	2,079.71	2,080.58	2,080.44
UEC	SoCal	NG	Ex	Office_post2020	Water_Heat	312.31	312.32	311.98	311.98	312.12	312.09
UEC	SoCal	NG	Ex	Office_pre2021	AC_Compressor	715.58	715.59	714.82	714.83	715.13	715.08
UEC	SoCal	NG	Ex	Office_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Cooking	226.05	226.06	225.81	225.82	225.91	225.90
UEC	SoCal	NG	Ex	Office_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Other	81.70	81.70	81.62	81.62	81.65	81.65
UEC	SoCal	NG	Ex	Office_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Office_pre2021	Space_Heat	2,081.90	2,081.92	2,079.69	2,079.71	2,080.58	2,080.44
UEC	SoCal	NG	Ex	Office_pre2021	Water_Heat	312.31	312.32	311.98	311.98	312.12	312.09
UEC	SoCal	NG	Ex	Restaurant_post2020	AC_Compressor	314.08	314.09	313.99	313.99	314.03	314.02
UEC	SoCal	NG	Ex	Restaurant_post2020	Cook_top	1,855.35	1,855.35	1,854.80	1,854.80	1,855.02	1,854.98
UEC	SoCal	NG	Ex	Restaurant_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Fryer	1,670.65	1,670.66	1,670.16	1,670.16	1,670.36	1,670.32
UEC	SoCal	NG	Ex	Restaurant_post2020	Griddle	1,409.83	1,409.83	1,409.41	1,409.41	1,409.58	1,409.55
UEC	SoCal	NG	Ex	Restaurant_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_post2020	Other_Cooking	1,503.57	1,503.58	1,503.13	1,503.13	1,503.31	1,503.28
UEC	SoCal	NG	Ex	Restaurant_post2020	Space_Heat	181.41	181.41	181.36	181.36	181.38	181.38
UEC	SoCal	NG	Ex	Restaurant_post2020	Water_Heat	1,288.12	1,288.12	1,287.74	1,287.74	1,287.89	1,287.87
UEC	SoCal	NG	Ex	Restaurant_pre2021	AC_Compressor	314.08	314.09	313.99	313.99	314.03	314.02
UEC	SoCal	NG	Ex	Restaurant_pre2021	Cook_top	1,931.74	1,931.75	1,931.17	1,931.18	1,931.40	1,931.36
UEC	SoCal	NG	Ex	Restaurant_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Fryer	1,670.65	1,670.66	1,670.16	1,670.16	1,670.36	1,670.32

**Southern California Gas Company**  
**G-10 UEC's**  
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Variable	Region	Fuel	Existing/Ne	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	Restaurant_pre2021	Griddle	1,457.44	1,457.45	1,457.01	1,457.01	1,457.18	1,457.15
UEC	SoCal	NG	Ex	Restaurant_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Restaurant_pre2021	Other_Cooking	1,503.57	1,503.58	1,503.13	1,503.13	1,503.31	1,503.28
UEC	SoCal	NG	Ex	Restaurant_pre2021	Space_Heat	181.41	181.41	181.36	181.36	181.38	181.38
UEC	SoCal	NG	Ex	Restaurant_pre2021	Water_Heat	1,288.12	1,288.12	1,287.74	1,287.74	1,287.89	1,287.87
UEC	SoCal	NG	Ex	Retail_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Cooking	5,881.41	5,881.42	5,879.21	5,879.23	5,880.09	5,879.95
UEC	SoCal	NG	Ex	Retail_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Other	87.85	87.85	87.82	87.82	87.83	87.83
UEC	SoCal	NG	Ex	Retail_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_post2020	Space_Heat	4,665.51	4,665.53	4,663.77	4,663.78	4,664.47	4,664.35
UEC	SoCal	NG	Ex	Retail_post2020	Water_Heat	2,003.57	2,003.58	2,002.82	2,002.83	2,003.13	2,003.08
UEC	SoCal	NG	Ex	Retail_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Cooking	5,881.41	5,881.42	5,879.21	5,879.23	5,880.09	5,879.95
UEC	SoCal	NG	Ex	Retail_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Other	92.51	92.51	92.48	92.48	92.49	92.49
UEC	SoCal	NG	Ex	Retail_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	Retail_pre2021	Space_Heat	4,665.51	4,665.53	4,663.77	4,663.78	4,664.47	4,664.35
UEC	SoCal	NG	Ex	Retail_pre2021	Water_Heat	2,003.57	2,003.58	2,002.82	2,002.83	2,003.13	2,003.08
UEC	SoCal	NG	Ex	EDUCATION_post2020	AC_Compressor	3,760.53	3,760.57	3,755.72	3,755.76	3,757.66	3,757.34
UEC	SoCal	NG	Ex	EDUCATION_post2020	Cook_top	1,755.77	1,755.79	1,753.52	1,753.54	1,754.43	1,754.28
UEC	SoCal	NG	Ex	EDUCATION_post2020	Cooking	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	Ex	EDUCATION_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Fryer	1,757.54	1,757.56	1,755.29	1,755.31	1,756.20	1,756.05
UEC	SoCal	NG	Ex	EDUCATION_post2020	Griddle	1,757.54	1,757.56	1,755.29	1,755.31	1,756.20	1,756.05
UEC	SoCal	NG	Ex	EDUCATION_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_post2020	Other_Cooking	1,755.77	1,755.79	1,753.52	1,753.54	1,754.43	1,754.28
UEC	SoCal	NG	Ex	EDUCATION_post2020	Space_Heat	7,373.54	7,373.63	7,364.12	7,364.20	7,367.91	7,367.29
UEC	SoCal	NG	Ex	EDUCATION_post2020	Water_Heat	9,288.24	9,288.34	9,276.36	9,276.47	9,281.14	9,280.35
UEC	SoCal	NG	Ex	EDUCATION_pre2021	AC_Compressor	3,014.02	3,014.05	3,010.16	3,010.20	3,011.71	3,011.46
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Cook_top	1,779.58	1,779.60	1,777.31	1,777.33	1,778.22	1,778.07
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Fryer	1,782.45	1,782.47	1,780.17	1,780.19	1,781.09	1,780.93
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Griddle	1,782.45	1,782.47	1,780.17	1,780.19	1,781.09	1,780.93
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Other_Cooking	1,779.58	1,779.60	1,777.31	1,777.33	1,778.22	1,778.07
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Space_Heat	4,280.10	4,280.15	4,274.63	4,274.67	4,276.83	4,276.47
UEC	SoCal	NG	Ex	EDUCATION_pre2021	Water_Heat	5,530.99	5,531.05	5,523.92	5,523.98	5,526.77	5,526.30
UEC	SoCal	NG	New	Agriculture_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Drying	17,024.06	17,024.27	16,999.76	16,999.98	17,009.55	17,007.93
UEC	SoCal	NG	New	Agriculture_post2020	Engine	73,198.85	73,199.76	73,094.36	73,095.29	73,136.44	73,129.48
UEC	SoCal	NG	New	Agriculture_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Other	800.53	800.54	799.39	799.40	799.85	799.78
UEC	SoCal	NG	New	Agriculture_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_post2020	Space_Heat	12,354.96	12,355.12	12,337.33	12,337.48	12,344.43	12,343.26
UEC	SoCal	NG	New	Agriculture_post2020	Water_Heat	16,338.72	16,338.92	16,315.39	16,315.60	16,324.78	16,323.23



**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	Agriculture_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Drying	18,134.48	18,134.70	18,108.59	18,108.82	18,119.02	18,117.29
UEC	SoCal	NG	New	Agriculture_pre2021	Engine	73,198.85	73,199.76	73,094.36	73,095.29	73,136.44	73,129.48
UEC	SoCal	NG	New	Agriculture_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Other	852.75	852.76	851.53	851.54	852.02	851.94
UEC	SoCal	NG	New	Agriculture_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Agriculture_pre2021	Space_Heat	12,354.96	12,355.12	12,337.33	12,337.48	12,344.43	12,343.26
UEC	SoCal	NG	New	Agriculture_pre2021	Water_Heat	16,338.72	16,338.92	16,315.39	16,315.60	16,324.78	16,323.23
UEC	SoCal	NG	New	Health_post2020	AC_Compressor	2,195.39	2,195.40	2,195.02	2,195.02	2,195.17	2,195.15
UEC	SoCal	NG	New	Health_post2020	Cook_top	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	New	Health_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_post2020	Drying	2,817.37	2,817.37	2,816.89	2,816.89	2,817.08	2,817.05
UEC	SoCal	NG	New	Health_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_post2020	Fryer	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	New	Health_post2020	Griddle	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	New	Health_post2020	Other	260.19	260.19	260.15	260.15	260.17	260.16
UEC	SoCal	NG	New	Health_post2020	Other_Cooking	509.50	509.50	509.41	509.41	509.45	509.44
UEC	SoCal	NG	New	Health_post2020	Space_Heat	1,324.37	1,324.37	1,324.14	1,324.15	1,324.23	1,324.22
UEC	SoCal	NG	New	Health_post2020	Water_Heat	7,728.83	7,728.85	7,727.52	7,727.53	7,728.05	7,727.96
UEC	SoCal	NG	New	Health_pre2021	AC_Compressor	2,195.39	2,195.40	2,195.02	2,195.02	2,195.17	2,195.15
UEC	SoCal	NG	New	Health_pre2021	Cook_top	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	New	Health_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_pre2021	Drying	2,817.37	2,817.37	2,816.89	2,816.89	2,817.08	2,817.05
UEC	SoCal	NG	New	Health_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Health_pre2021	Fryer	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	New	Health_pre2021	Griddle	5,078.28	5,078.29	5,077.41	5,077.42	5,077.76	5,077.71
UEC	SoCal	NG	New	Health_pre2021	Other	274.69	274.69	274.64	274.65	274.66	274.66

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	Health_pre2021	Other_Cooking	509.50	509.50	509.41	509.41	509.45	509.44
UEC	SoCal	NG	New	Health_pre2021	Space_Heat	1,324.37	1,324.37	1,324.14	1,324.15	1,324.23	1,324.22
UEC	SoCal	NG	New	Health_pre2021	Water_Heat	7,728.83	7,728.85	7,727.52	7,727.53	7,728.05	7,727.96
UEC	SoCal	NG	New	Laundry_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Drying	18,607.96	18,608.00	18,603.26	18,603.30	18,605.15	18,604.84
UEC	SoCal	NG	New	Laundry_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Other	692.34	692.34	692.16	692.16	692.23	692.22
UEC	SoCal	NG	New	Laundry_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_post2020	Space_Heat	181.78	181.78	181.73	181.73	181.75	181.75
UEC	SoCal	NG	New	Laundry_post2020	Water_Heat	3,301.88	3,301.89	3,301.05	3,301.05	3,301.38	3,301.33
UEC	SoCal	NG	New	Laundry_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Drying	18,607.96	18,608.00	18,603.26	18,603.30	18,605.15	18,604.84
UEC	SoCal	NG	New	Laundry_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Other	670.95	670.96	670.79	670.79	670.85	670.84
UEC	SoCal	NG	New	Laundry_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Laundry_pre2021	Space_Heat	181.78	181.78	181.73	181.73	181.75	181.75
UEC	SoCal	NG	New	Laundry_pre2021	Water_Heat	3,301.88	3,301.89	3,301.05	3,301.05	3,301.38	3,301.33
UEC	SoCal	NG	New	Lodging_post2020	AC_Compressor	765.88	765.88	765.65	765.66	765.74	765.73
UEC	SoCal	NG	New	Lodging_post2020	Cook_top	4,332.83	4,332.84	4,331.56	4,331.58	4,332.07	4,331.99
UEC	SoCal	NG	New	Lodging_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_post2020	Drying	2,323.91	2,323.92	2,323.24	2,323.24	2,323.51	2,323.46
UEC	SoCal	NG	New	Lodging_post2020	Engine	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	Lodging_post2020	Fryer	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	New	Lodging_post2020	Griddle	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	New	Lodging_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_post2020	Other_Cooking	560.04	560.04	559.88	559.88	559.94	559.93
UEC	SoCal	NG	New	Lodging_post2020	Space_Heat	5,189.58	5,189.59	5,188.07	5,188.08	5,188.68	5,188.58
UEC	SoCal	NG	New	Lodging_post2020	Water_Heat	9,454.12	9,454.14	9,451.37	9,451.39	9,452.48	9,452.29
UEC	SoCal	NG	New	Lodging_pre2021	AC_Compressor	765.88	765.88	765.65	765.66	765.74	765.73
UEC	SoCal	NG	New	Lodging_pre2021	Cook_top	4,332.83	4,332.84	4,331.56	4,331.58	4,332.07	4,331.99
UEC	SoCal	NG	New	Lodging_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Drying	2,323.91	2,323.92	2,323.24	2,323.24	2,323.51	2,323.46
UEC	SoCal	NG	New	Lodging_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Fryer	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	New	Lodging_pre2021	Griddle	5,638.79	5,638.81	5,637.15	5,637.17	5,637.81	5,637.70
UEC	SoCal	NG	New	Lodging_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Lodging_pre2021	Other_Cooking	560.04	560.04	559.88	559.88	559.94	559.93
UEC	SoCal	NG	New	Lodging_pre2021	Space_Heat	5,189.58	5,189.59	5,188.07	5,188.08	5,188.68	5,188.58
UEC	SoCal	NG	New	Lodging_pre2021	Water_Heat	9,290.07	9,290.09	9,287.36	9,287.39	9,288.45	9,288.27
UEC	SoCal	NG	New	Misc_post2020	AC_Compressor	3,264.29	3,264.30	3,262.22	3,262.24	3,263.05	3,262.91
UEC	SoCal	NG	New	Misc_post2020	Cook_top	1,808.80	1,808.81	1,807.66	1,807.67	1,808.12	1,808.04
UEC	SoCal	NG	New	Misc_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_post2020	Engine	60,587.88	60,588.22	60,549.47	60,549.81	60,564.95	60,562.40
UEC	SoCal	NG	New	Misc_post2020	Fryer	285.16	285.16	284.98	284.98	285.05	285.04
UEC	SoCal	NG	New	Misc_post2020	Griddle	794.10	794.11	793.60	793.60	793.80	793.77
UEC	SoCal	NG	New	Misc_post2020	Other	660.76	660.77	660.35	660.35	660.51	660.49
UEC	SoCal	NG	New	Misc_post2020	Other_Cooking	309.78	309.78	309.58	309.58	309.66	309.65
UEC	SoCal	NG	New	Misc_post2020	Space_Heat	1,390.21	1,390.22	1,389.33	1,389.34	1,389.69	1,389.63
UEC	SoCal	NG	New	Misc_post2020	Water_Heat	2,566.12	2,566.13	2,564.49	2,564.51	2,565.15	2,565.04
UEC	SoCal	NG	New	Misc_pre2021	AC_Compressor	2,288.62	2,288.64	2,287.17	2,287.19	2,287.76	2,287.66
UEC	SoCal	NG	New	Misc_pre2021	Cook_top	808.52	808.52	808.01	808.01	808.21	808.18

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	Misc_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Misc_pre2021	Engine	59,635.42	59,635.75	59,597.61	59,597.95	59,612.85	59,610.33
UEC	SoCal	NG	New	Misc_pre2021	Fryer	790.22	790.22	789.72	789.72	789.92	789.89
UEC	SoCal	NG	New	Misc_pre2021	Griddle	803.42	803.42	802.91	802.91	803.12	803.08
UEC	SoCal	NG	New	Misc_pre2021	Other	116.91	116.91	116.83	116.84	116.86	116.86
UEC	SoCal	NG	New	Misc_pre2021	Other_Cooking	789.55	789.55	789.05	789.05	789.25	789.22
UEC	SoCal	NG	New	Misc_pre2021	Space_Heat	3,126.59	3,126.61	3,124.61	3,124.63	3,125.41	3,125.28
UEC	SoCal	NG	New	Misc_pre2021	Water_Heat	3,017.70	3,017.71	3,015.78	3,015.80	3,016.55	3,016.43
UEC	SoCal	NG	New	Office_post2020	AC_Compressor	715.58	715.59	714.82	714.83	715.13	715.08
UEC	SoCal	NG	New	Office_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Cooking	226.05	226.06	225.81	225.82	225.91	225.90
UEC	SoCal	NG	New	Office_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Other	80.17	80.17	80.08	80.08	80.12	80.11
UEC	SoCal	NG	New	Office_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_post2020	Space_Heat	2,081.90	2,081.92	2,079.69	2,079.71	2,080.58	2,080.44
UEC	SoCal	NG	New	Office_post2020	Water_Heat	312.31	312.32	311.98	311.98	312.12	312.09
UEC	SoCal	NG	New	Office_pre2021	AC_Compressor	715.58	715.59	714.82	714.83	715.13	715.08
UEC	SoCal	NG	New	Office_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Cooking	226.05	226.06	225.81	225.82	225.91	225.90
UEC	SoCal	NG	New	Office_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Other	81.70	81.70	81.62	81.62	81.65	81.65
UEC	SoCal	NG	New	Office_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Office_pre2021	Space_Heat	2,081.90	2,081.92	2,079.69	2,079.71	2,080.58	2,080.44

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	Office_pre2021	Water_Heat	312.31	312.32	311.98	311.98	312.12	312.09
UEC	SoCal	NG	New	Restaurant_post2020	AC_Compressor	314.08	314.09	313.99	313.99	314.03	314.02
UEC	SoCal	NG	New	Restaurant_post2020	Cook_top	1,855.35	1,855.35	1,854.80	1,854.80	1,855.02	1,854.98
UEC	SoCal	NG	New	Restaurant_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Fryer	1,670.65	1,670.66	1,670.16	1,670.16	1,670.36	1,670.32
UEC	SoCal	NG	New	Restaurant_post2020	Griddle	1,409.83	1,409.83	1,409.41	1,409.41	1,409.58	1,409.55
UEC	SoCal	NG	New	Restaurant_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_post2020	Other_Cooking	1,503.57	1,503.58	1,503.13	1,503.13	1,503.31	1,503.28
UEC	SoCal	NG	New	Restaurant_post2020	Space_Heat	181.41	181.41	181.36	181.36	181.38	181.38
UEC	SoCal	NG	New	Restaurant_post2020	Water_Heat	1,288.12	1,288.12	1,287.74	1,287.74	1,287.89	1,287.87
UEC	SoCal	NG	New	Restaurant_pre2021	AC_Compressor	314.08	314.09	313.99	313.99	314.03	314.02
UEC	SoCal	NG	New	Restaurant_pre2021	Cook_top	1,931.74	1,931.75	1,931.17	1,931.18	1,931.40	1,931.36
UEC	SoCal	NG	New	Restaurant_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Fryer	1,670.65	1,670.66	1,670.16	1,670.16	1,670.36	1,670.32
UEC	SoCal	NG	New	Restaurant_pre2021	Griddle	1,457.44	1,457.45	1,457.01	1,457.01	1,457.18	1,457.15
UEC	SoCal	NG	New	Restaurant_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	Restaurant_pre2021	Other_Cooking	1,503.57	1,503.58	1,503.13	1,503.13	1,503.31	1,503.28
UEC	SoCal	NG	New	Restaurant_pre2021	Space_Heat	181.41	181.41	181.36	181.36	181.38	181.38
UEC	SoCal	NG	New	Restaurant_pre2021	Water_Heat	1,288.12	1,288.12	1,287.74	1,287.74	1,287.89	1,287.87
UEC	SoCal	NG	New	Retail_post2020	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Cooking	5,881.41	5,881.42	5,879.21	5,879.23	5,880.09	5,879.95
UEC	SoCal	NG	New	Retail_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Griddle	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	Retail_post2020	Other	87.85	87.85	87.82	87.82	87.83	87.83
UEC	SoCal	NG	New	Retail_post2020	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_post2020	Space_Heat	4,665.51	4,665.53	4,663.77	4,663.78	4,664.47	4,664.35
UEC	SoCal	NG	New	Retail_post2020	Water_Heat	2,003.57	2,003.58	2,002.82	2,002.83	2,003.13	2,003.08
UEC	SoCal	NG	New	Retail_pre2021	AC_Compressor	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Cook_top	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Cooking	5,881.41	5,881.42	5,879.21	5,879.23	5,880.09	5,879.95
UEC	SoCal	NG	New	Retail_pre2021	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Fryer	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Griddle	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Other	92.51	92.51	92.48	92.48	92.49	92.49
UEC	SoCal	NG	New	Retail_pre2021	Other_Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	Retail_pre2021	Space_Heat	4,665.51	4,665.53	4,663.77	4,663.78	4,664.47	4,664.35
UEC	SoCal	NG	New	Retail_pre2021	Water_Heat	2,003.57	2,003.58	2,002.82	2,002.83	2,003.13	2,003.08
UEC	SoCal	NG	New	EDUCATION_post2020	AC_Compressor	3,760.53	3,760.57	3,755.72	3,755.76	3,757.66	3,757.34
UEC	SoCal	NG	New	EDUCATION_post2020	Cook_top	1,755.77	1,755.79	1,753.52	1,753.54	1,754.43	1,754.28
UEC	SoCal	NG	New	EDUCATION_post2020	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Drying	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Fryer	1,757.54	1,757.56	1,755.29	1,755.31	1,756.20	1,756.05
UEC	SoCal	NG	New	EDUCATION_post2020	Griddle	1,757.54	1,757.56	1,755.29	1,755.31	1,756.20	1,756.05
UEC	SoCal	NG	New	EDUCATION_post2020	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_post2020	Other_Cooking	1,755.77	1,755.79	1,753.52	1,753.54	1,754.43	1,754.28
UEC	SoCal	NG	New	EDUCATION_post2020	Space_Heat	7,373.54	7,373.63	7,364.12	7,364.20	7,367.91	7,367.29
UEC	SoCal	NG	New	EDUCATION_post2020	Water_Heat	9,288.24	9,288.34	9,276.36	9,276.47	9,281.14	9,280.35
UEC	SoCal	NG	New	EDUCATION_pre2021	AC_Compressor	3,014.02	3,014.05	3,010.16	3,010.20	3,011.71	3,011.46
UEC	SoCal	NG	New	EDUCATION_pre2021	Cook_top	1,779.58	1,779.60	1,777.31	1,777.33	1,778.22	1,778.07
UEC	SoCal	NG	New	EDUCATION_pre2021	Cooking	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Drying	-	-	-	-	-	-

**Southern California Gas Company**  
**G-10 UEC's**  
**Table C Comm-16**

Variable	Region	Fuel	Existing/New	Segments	End Use	2035	2036	2037	2038	2039	2040
UEC	SoCal	NG	New	EDUCATION_pre2021	Engine	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Fryer	1,782.45	1,782.47	1,780.17	1,780.19	1,781.09	1,780.93
UEC	SoCal	NG	New	EDUCATION_pre2021	Griddle	1,782.45	1,782.47	1,780.17	1,780.19	1,781.09	1,780.93
UEC	SoCal	NG	New	EDUCATION_pre2021	Other	-	-	-	-	-	-
UEC	SoCal	NG	New	EDUCATION_pre2021	Other_Cooking	1,779.58	1,779.60	1,777.31	1,777.33	1,778.22	1,778.07
UEC	SoCal	NG	New	EDUCATION_pre2021	Space_Heat	4,280.10	4,280.15	4,274.63	4,274.67	4,276.83	4,276.47
UEC	SoCal	NG	New	EDUCATION_pre2021	Water_Heat	5,530.99	5,531.05	5,523.92	5,523.98	5,526.77	5,526.30

Southern California Gas Company  
Nominal and Real Gas Rates Forecast (\$/therm)  
Table C Comm-17

	Real Rate (Commodity + Transportation)
2023 \$	1.43
2024 \$	1.52
2025 \$	1.55
2026 \$	1.79
2027 \$	1.82
2028 \$	1.90
2029 \$	1.92
2030 \$	1.96
2031 \$	1.92
2032 \$	1.92
2033 \$	1.93
2034 \$	1.93
2035 \$	1.91
2036 \$	1.91
2037 \$	1.93
2038 \$	1.93
2039 \$	1.92
2040 \$	1.92



## **CORE INDUSTRIAL**

## Core Industrial End-Use Model Description

### Introduction:

SoCalGas used the Navigator end-use model to generate annual gas demand forecasts for the Core Industrial G-10 market. The model's market segmentation description and end-use modeling framework are presented in the previous sections of the SoCalGas workpapers.

The SoCalGas Core Industrial segmentation contains the following 8 types:

- Food & Beverage Manufacturing
- Textiles
- Chemicals
- Petroleum Products
- Primary Metals
- Fabricated Metals
- Transportation Equipment
- Miscellaneous

In this CGR, the segments for Mining, Wood and Paper, Stone, Clay, and Glass were combined into "Miscellaneous".

There are two vintages, same as Residential and Core Commercial markets, "Old" and "New". The "Old" describes existing customers (established prior to the year 2021) whereas "New" describes the new meter hookups (established in year 2021 and beyond).

The Core Industrial model identifies 9 end-uses that are the primary drivers of natural gas demand. These are:

- Space Heating
- Water Heating
- Drying
- Engine
- AC Compressor
- Fire-tube Boiler
- Water-tube Boiler
- Furnace/Oven/Kiln
- Other/Miscellaneous

A set of post-model adjustments were applied to the Navigator end-use model’s Core Industrial annual demand forecasts in the same way as described in the Core Commercial market. These post-model adjustments included the weather-related adjustments, Energy Efficiency, AAFS Scenario 3 Programmatic Savings, SGIP, core to noncore transfers, and City of Vernon migration. The annual forecasts were also distributed into monthly forecasts by applying estimated monthly consumption shares in the annual consumption.

#### Data Sources and Tables:

The data used to populate the Navigator model parameter template and used to generate the forecasts includes historical base year consumption and customer counts, price elasticities, gas rates forecasts, historical and forecasted account counts, saturation, fuel shares, and unit energy consumption (UEC) values.

The following tables in this section are labelled with the prefix “CoreInd-” to distinguish them from the tables in other sections. Tables 1-4 illustrate the Core Industrial monthly forecasts under each of the weather design scenarios (Average, Cold, Hot and Base). Table 5 contains the annual post-model adjustments. The historical 2023 data is in Table 6. Tables 7-15 show accounts, units, saturations, gas real rates forecasts, fuel shares and UECs.

**Southern California Gas Company  
Core Industrial Demand Forecast (Mdth)  
Average Temperature  
Table CoreInd-1**

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2023	1,777	1,721	1,736	1,674	1,552	1,531	1,475	1,475	1,560	1,683	1,721	1,707	19,610
2024	1,730	1,673	1,689	1,631	1,511	1,491	1,437	1,437	1,518	1,640	1,676	1,663	19,097
2025	1,712	1,655	1,671	1,614	1,496	1,477	1,423	1,423	1,504	1,624	1,659	1,645	18,904
2026	1,683	1,628	1,644	1,588	1,472	1,453	1,400	1,401	1,480	1,598	1,632	1,617	18,596
2027	1,666	1,611	1,628	1,573	1,458	1,440	1,387	1,388	1,466	1,583	1,616	1,601	18,418
2028	1,647	1,593	1,610	1,556	1,443	1,425	1,373	1,373	1,451	1,567	1,599	1,582	18,221
2029	1,631	1,578	1,595	1,542	1,430	1,413	1,361	1,361	1,438	1,553	1,584	1,567	18,053
2030	1,614	1,562	1,579	1,527	1,416	1,399	1,348	1,349	1,425	1,539	1,569	1,551	17,878
2031	1,601	1,549	1,566	1,515	1,406	1,389	1,338	1,339	1,415	1,527	1,557	1,538	17,740
2032	1,587	1,535	1,553	1,503	1,394	1,378	1,328	1,328	1,403	1,515	1,543	1,524	17,591
2033	1,572	1,521	1,539	1,490	1,382	1,366	1,317	1,317	1,391	1,502	1,530	1,509	17,436
2034	1,558	1,508	1,525	1,477	1,371	1,355	1,306	1,306	1,380	1,490	1,517	1,495	17,287
2035	1,544	1,495	1,513	1,465	1,360	1,345	1,296	1,296	1,370	1,478	1,505	1,482	17,149
2036	1,531	1,482	1,500	1,453	1,349	1,334	1,285	1,286	1,359	1,466	1,492	1,469	17,004
2037	1,516	1,468	1,486	1,440	1,337	1,323	1,275	1,275	1,347	1,454	1,479	1,455	16,855
2038	1,503	1,455	1,474	1,428	1,326	1,312	1,264	1,264	1,336	1,442	1,466	1,442	16,712
2039	1,496	1,448	1,467	1,423	1,321	1,307	1,260	1,260	1,331	1,437	1,460	1,435	16,646
2040	1,487	1,440	1,459	1,415	1,315	1,301	1,254	1,254	1,325	1,430	1,453	1,427	16,560

**Southern California Gas Company  
Core Industrial Demand Forecast (Mdth)  
Cold Temperature  
Table CoreInd-2**

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2023	1,835	1,770	1,773	1,695	1,562	1,533	1,475	1,475	1,560	1,689	1,748	1,768	19,886
2024	1,788	1,722	1,726	1,652	1,521	1,494	1,437	1,437	1,519	1,646	1,703	1,724	19,370
2025	1,769	1,704	1,709	1,635	1,506	1,479	1,423	1,423	1,505	1,630	1,686	1,706	19,176
2026	1,740	1,676	1,681	1,609	1,482	1,456	1,401	1,401	1,481	1,604	1,659	1,678	18,867
2027	1,722	1,660	1,664	1,594	1,468	1,442	1,388	1,388	1,467	1,589	1,643	1,661	18,686
2028	1,703	1,641	1,646	1,577	1,453	1,427	1,374	1,374	1,452	1,573	1,625	1,642	18,487
2029	1,687	1,626	1,631	1,563	1,440	1,415	1,361	1,362	1,439	1,559	1,610	1,626	18,318
2030	1,670	1,609	1,615	1,548	1,426	1,401	1,349	1,349	1,426	1,544	1,595	1,609	18,141
2031	1,656	1,596	1,602	1,536	1,415	1,391	1,339	1,339	1,415	1,533	1,583	1,596	18,001
2032	1,641	1,582	1,588	1,523	1,404	1,380	1,328	1,328	1,404	1,521	1,569	1,582	17,851
2033	1,626	1,568	1,574	1,510	1,392	1,368	1,317	1,317	1,392	1,508	1,555	1,567	17,694
2034	1,612	1,554	1,560	1,497	1,380	1,357	1,306	1,306	1,381	1,495	1,542	1,553	17,543
2035	1,598	1,541	1,548	1,485	1,369	1,347	1,296	1,296	1,370	1,484	1,530	1,539	17,404
2036	1,584	1,527	1,534	1,473	1,358	1,336	1,286	1,286	1,359	1,472	1,517	1,525	17,257
2037	1,569	1,513	1,521	1,460	1,346	1,325	1,275	1,275	1,348	1,460	1,504	1,511	17,106
2038	1,555	1,500	1,508	1,448	1,335	1,314	1,265	1,265	1,337	1,448	1,491	1,497	16,962
2039	1,548	1,493	1,501	1,442	1,330	1,309	1,260	1,260	1,332	1,442	1,485	1,490	16,894
2040	1,539	1,485	1,493	1,434	1,324	1,303	1,254	1,254	1,326	1,436	1,477	1,482	16,807

**Southern California Gas Company  
Core Industrial Demand Forecast (Mdth)  
Hot Temperature  
Table CoreInd-3**

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2023	1,719	1,671	1,698	1,652	1,541	1,529	1,474	1,474	1,559	1,677	1,693	1,645	19,334
2024	1,672	1,624	1,652	1,609	1,501	1,489	1,437	1,437	1,518	1,634	1,649	1,602	18,823
2025	1,654	1,606	1,634	1,593	1,486	1,475	1,423	1,423	1,503	1,618	1,632	1,584	18,632
2026	1,626	1,579	1,607	1,567	1,462	1,451	1,400	1,400	1,479	1,592	1,605	1,557	18,326
2027	1,609	1,563	1,591	1,552	1,448	1,438	1,387	1,387	1,465	1,577	1,590	1,541	18,149
2028	1,591	1,545	1,574	1,535	1,433	1,423	1,373	1,373	1,450	1,561	1,572	1,523	17,954
2029	1,575	1,530	1,559	1,521	1,420	1,411	1,361	1,361	1,437	1,547	1,558	1,508	17,788
2030	1,559	1,515	1,543	1,507	1,407	1,397	1,348	1,348	1,424	1,533	1,543	1,492	17,615
2031	1,546	1,502	1,531	1,495	1,396	1,387	1,338	1,338	1,414	1,521	1,531	1,479	17,479
2032	1,532	1,489	1,518	1,482	1,385	1,376	1,327	1,328	1,402	1,509	1,518	1,466	17,331
2033	1,518	1,475	1,504	1,469	1,373	1,364	1,316	1,316	1,391	1,496	1,504	1,452	17,178
2034	1,504	1,461	1,491	1,457	1,361	1,353	1,305	1,306	1,379	1,484	1,491	1,438	17,031
2035	1,491	1,449	1,478	1,445	1,351	1,343	1,295	1,296	1,369	1,473	1,479	1,426	16,895
2036	1,477	1,436	1,465	1,433	1,340	1,332	1,285	1,285	1,358	1,461	1,467	1,412	16,752
2037	1,463	1,423	1,452	1,421	1,328	1,321	1,274	1,274	1,346	1,449	1,454	1,399	16,604
2038	1,450	1,410	1,440	1,409	1,317	1,310	1,264	1,264	1,335	1,437	1,441	1,386	16,463
2039	1,444	1,404	1,434	1,403	1,312	1,305	1,259	1,260	1,331	1,432	1,436	1,380	16,398
2040	1,435	1,396	1,426	1,396	1,306	1,299	1,253	1,254	1,324	1,425	1,428	1,372	16,314

**Southern California Gas Company  
Core Industrial Demand Forecast (Mdth)  
Base Temperature  
Table CoreInd-4**

Year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2023	1,538	1,389	1,538	1,488	1,538	1,488	1,538	1,538	1,488	1,538	1,488	1,538	18,108
2024	1,494	1,345	1,493	1,447	1,497	1,448	1,499	1,499	1,447	1,495	1,446	1,496	17,605
2025	1,478	1,331	1,477	1,431	1,482	1,433	1,484	1,484	1,432	1,480	1,430	1,481	17,422
2026	1,453	1,307	1,452	1,407	1,456	1,409	1,459	1,459	1,408	1,454	1,406	1,455	17,124
2027	1,438	1,294	1,437	1,393	1,442	1,395	1,445	1,445	1,394	1,440	1,392	1,441	16,955
2028	1,422	1,279	1,421	1,377	1,427	1,380	1,429	1,429	1,379	1,424	1,376	1,425	16,768
2029	1,408	1,267	1,408	1,364	1,413	1,367	1,416	1,416	1,366	1,411	1,363	1,412	16,610
2030	1,394	1,253	1,394	1,350	1,400	1,354	1,402	1,402	1,352	1,397	1,349	1,398	16,445
2031	1,383	1,243	1,383	1,340	1,389	1,343	1,392	1,392	1,342	1,386	1,338	1,387	16,316
2032	1,371	1,232	1,371	1,328	1,377	1,332	1,380	1,380	1,330	1,374	1,327	1,375	16,177
2033	1,359	1,221	1,358	1,316	1,365	1,320	1,368	1,368	1,318	1,361	1,315	1,362	16,031
2034	1,347	1,210	1,346	1,305	1,353	1,308	1,356	1,356	1,307	1,349	1,303	1,351	15,891
2035	1,336	1,199	1,335	1,294	1,342	1,298	1,346	1,346	1,296	1,339	1,292	1,340	15,763
2036	1,324	1,189	1,324	1,283	1,331	1,287	1,334	1,334	1,285	1,327	1,281	1,328	15,627
2037	1,312	1,178	1,312	1,271	1,319	1,275	1,323	1,323	1,274	1,315	1,269	1,316	15,487
2038	1,301	1,167	1,300	1,260	1,308	1,264	1,312	1,312	1,263	1,304	1,258	1,305	15,353
2039	1,296	1,163	1,296	1,255	1,303	1,260	1,306	1,306	1,258	1,299	1,254	1,300	15,296
2040	1,290	1,157	1,289	1,249	1,296	1,253	1,300	1,300	1,251	1,292	1,247	1,294	15,219

**Southern California Gas Company  
Core Industrial G-10  
Out-Of-Model Adjustments (Mdt)  
Table CoreInd-5**

<b>Year</b>	<b>Climate Change</b>	<b>EE/AAFS</b>	<b>SGIP</b>	<b>City of Vernon Migration</b>	<b>Core to NonCore Migration</b>	<b>TOTAL</b>
<b>2023</b>	0.0	0.0	0.0	0.0	0.0	0.0
<b>2024</b>	-8.4	-64.0	0.0	-9.7	-252.9	-334.9
<b>2025</b>	-16.7	-110.8	0.0	-19.3	-252.9	-399.7
<b>2026</b>	-24.9	-147.2	0.1	-29.0	-252.9	-453.9
<b>2027</b>	-33.0	-183.3	0.1	-38.6	-252.9	-507.7
<b>2028</b>	-40.9	-217.3	0.1	-48.3	-252.9	-559.4
<b>2029</b>	-48.8	-249.2	0.1	-57.9	-252.9	-608.7
<b>2030</b>	-56.5	-279.4	0.1	-67.6	-252.9	-656.3
<b>2031</b>	-64.2	-307.9	0.2	-77.3	-252.9	-702.1
<b>2032</b>	-71.7	-335.7	0.2	-86.9	-252.9	-747.2
<b>2033</b>	-79.2	-362.6	0.2	-96.6	-252.9	-791.1
<b>2034</b>	-86.5	-388.4	0.2	-106.2	-252.9	-833.9
<b>2035</b>	-93.8	-413.4	0.2	-115.9	-252.9	-875.8
<b>2036</b>	-100.9	-438.3	0.3	-125.5	-252.9	-917.4
<b>2037</b>	-107.9	-463.0	0.3	-135.2	-252.9	-958.8
<b>2038</b>	-114.9	-487.6	0.3	-144.9	-252.9	-1000.0
<b>2039</b>	-121.7	-449.0	0.3	-144.9	-252.9	-968.2
<b>2040</b>	-128.5	-427.6	0.3	-144.9	-252.9	-953.6



**Southern California Gas Company  
Core Industrial G-10  
Base Year Throughput and Customer Counts  
Table CoreInd-6**

<b>Business Type</b>	<b>2023 Weather- adjusted Therm Sales</b>	<b>2023 Meter Count</b>	<b>2023 Meter Count of Existing customers</b>	<b>2023 Meter Count of New Customers</b>	<b>Avg Use Per Meter of Existing Customers</b>	<b>Avg Use Per Meter of New Customers</b>	<b>Price Elasticity</b>
<b>Food</b>	70,056,472	2,642	2,571	71	27,059	6,871	-0.03075
<b>Textile</b>	7,850,086	391	389	2	20,166	2,776	-0.04337
<b>Chemical</b>	17,957,367	941	926	15	19,163	14,180	-0.01859
<b>Petroleum</b>	11,447,023	121	120	1	94,559	99,978	-0.11707
<b>Prim_Metal</b>	7,753,918	270	268	2	28,201	98,054	-0.01213
<b>Fab_Metal</b>	22,359,913	1,804	1,792	12	12,454	3,467	-0.03872
<b>Transport</b>	13,099,576	1,253	1,250	3	10,474	2,164	-0.09379
<b>Misc</b>	45,574,662	5,965	5,919	46	7,619	10,422	-0.05709
<b>Total</b>	<b>196,099,017</b>	<b>13,387</b>					

*Note: There are 8 core industrial business types in CGR2024 while there were 11 in CGR2022 as a result of collapsing three small segments into the miscellaneous one.*

**Southern California Gas Company  
Core Industrial G-10  
Accounts  
Table CoreInd-7**

<b>Segment ID</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>
Chemical_new	15	18	21	25	28	31	34	37	41
Chemical_old	926	923	919	916	912	909	905	902	899
Fab_Metal_new	12	16	21	25	29	33	38	42	46
Fab_Metal_old	1,792	1,782	1,773	1,763	1,754	1,744	1,734	1,725	1,715
Food_new	71	86	102	117	132	147	163	178	193
Food_old	2,571	2,555	2,539	2,523	2,507	2,492	2,476	2,460	2,444
Misc_new	46	60	74	88	102	116	130	144	158
Misc_old	5,919	5,792	5,667	5,543	5,421	5,300	5,180	5,062	4,944
Petroleum_new	1	1	2	2	3	3	4	4	5
Petroleum_old	120	119	119	118	118	117	117	116	116
Prim_Metal_new	2	3	3	4	4	5	5	6	6
Prim_Metal_old	268	266	264	262	259	257	255	253	251
Textile_new	2	3	4	4	5	6	7	7	8
Textile_old	389	386	383	381	378	375	372	370	367
Transport_new	3	4	5	6	7	8	9	10	11
Transport_old	1,250	1,238	1,225	1,213	1,200	1,188	1,175	1,163	1,150

*Note: For each business segment in the above and following tables in this section, there is a postfix that "\_old" refers to the vintage on and before 2020 while "\_new" refers to the vintage after 2020.*

**Southern California Gas Company  
Core Industrial G-10  
Accounts  
Table CoreInd-7 (Cont.)**

<b>Segment ID</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>	<b>2037</b>	<b>2038</b>	<b>2039</b>	<b>2040</b>
Chemical_new	44	47	50	53	56	60	63	66	69
Chemical_old	895	892	888	885	882	878	875	871	868
Fab_Metal_new	50	55	59	63	67	72	76	80	84
Fab_Metal_old	1,706	1,696	1,686	1,677	1,667	1,658	1,648	1,638	1,629
Food_new	208	224	239	254	269	285	300	315	330
Food_old	2,428	2,412	2,396	2,380	2,364	2,348	2,333	2,317	2,301
Misc_new	172	186	200	214	228	242	256	270	284
Misc_old	4,828	4,713	4,600	4,487	4,376	4,266	4,156	4,049	3,942
Petroleum_new	5	6	6	6	7	7	8	8	9
Petroleum_old	115	115	114	114	113	112	112	111	111
Prim_Metal_new	7	7	8	8	9	9	10	10	11
Prim_Metal_old	249	246	244	242	240	238	236	233	231
Textile_new	9	10	10	11	12	13	13	14	15
Textile_old	364	361	359	356	353	350	348	345	342
Transport_new	12	13	14	15	16	17	18	19	20
Transport_old	1,138	1,125	1,113	1,100	1,088	1,075	1,063	1,050	1,038

**Southern California Gas Company  
Core Industrial G-10  
Units  
Table CoreInd-8**

<b>Segment ID</b>	<b>Units</b>
Chemical_new	15
Chemical_old	926
Fab_Metal_new	12
Fab_Metal_old	1,792
Food_new	71
Food_old	2,571
Misc_new	46
Misc_old	5,919
Petroleum_new	1
Petroleum_old	120
Prim_Metal_new	2
Prim_Metal_old	268
Textile_new	2
Textile_old	389
Transport_new	3
Transport_old	1,250





**Southern California Gas Company  
Core Industrial G-10  
Saturation of Existing Customers  
Table CoreInd-9 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Prim_Metal_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prim_Metal_old	Space_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Prim_Metal_old	Water_Heat	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Prim_Metal_old	Water_Tube_Boiler	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Textile_new	AC	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Textile_new	Drying	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Textile_new	Engine	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	0.00	0.00
Textile_new	Fire_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Textile_new	Furnace_Oven_Kiln	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Textile_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_new	Space_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Textile_new	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Textile_new	Water_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Textile_old	AC	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Textile_old	Drying	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Textile_old	Engine	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	0.00	0.00
Textile_old	Fire_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Textile_old	Furnace_Oven_Kiln	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Textile_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_old	Space_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Textile_old	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Textile_old	Water_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Transport_new	AC	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Transport_new	Drying	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Transport_new	Engine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Transport_new	Fire_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Transport_new	Furnace_Oven_Kiln	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Transport_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_new	Space_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_new	Water_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_new	Water_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Transport_old	AC	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Transport_old	Drying	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Transport_old	Engine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Transport_old	Fire_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Transport_old	Furnace_Oven_Kiln	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Transport_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_old	Space_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_old	Water_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_old	Water_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14







**Southern California Gas Company  
Core Industrial G-10  
Saturation of New Customers  
Table CoreInd-10 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Prim_Metal_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prim_Metal_old	Space_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Prim_Metal_old	Water_Heat	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76
Prim_Metal_old	Water_Tube_Boiler	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Textile_new	AC	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Textile_new	Drying	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Textile_new	Engine	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	0.00	0.00
Textile_new	Fire_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Textile_new	Furnace_Oven_Kiln	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Textile_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_new	Space_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Textile_new	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Textile_new	Water_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Textile_old	AC	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Textile_old	Drying	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Textile_old	Engine	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	0.00	0.00
Textile_old	Fire_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Textile_old	Furnace_Oven_Kiln	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Textile_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_old	Space_Heat	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Textile_old	Water_Heat	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Textile_old	Water_Tube_Boiler	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Transport_new	AC	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Transport_new	Drying	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Transport_new	Engine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Transport_new	Fire_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Transport_new	Furnace_Oven_Kiln	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Transport_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_new	Space_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_new	Water_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_new	Water_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Transport_old	AC	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Transport_old	Drying	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Transport_old	Engine	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Transport_old	Fire_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Transport_old	Furnace_Oven_Kiln	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Transport_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_old	Space_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_old	Water_Heat	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Transport_old	Water_Tube_Boiler	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14





**Southern California Gas Company**  
**Core Industrial G-10**  
**Gas Fuel Market Shares of Existing Customers**  
**Table CoreInd-11 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Prim_Metal_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prim_Metal_old	Space_Heat	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Prim_Metal_old	Water_Heat	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Prim_Metal_old	Water_Tube_Boiler	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Textile_new	AC	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	0.00	0.00
Textile_new	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Textile_new	Engine	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	0.00	0.00
Textile_new	Fire_Tube_Boiler	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Textile_new	Furnace_Oven_Kiln	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Textile_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_new	Space_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Textile_new	Water_Heat	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Textile_new	Water_Tube_Boiler	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Textile_old	AC	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	0.00	0.00
Textile_old	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Textile_old	Engine	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	0.00	0.00
Textile_old	Fire_Tube_Boiler	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Textile_old	Furnace_Oven_Kiln	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Textile_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_old	Space_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Textile_old	Water_Heat	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Textile_old	Water_Tube_Boiler	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Transport_new	AC	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	0.00	0.00
Transport_new	Drying	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_new	Engine	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Transport_new	Fire_Tube_Boiler	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Transport_new	Furnace_Oven_Kiln	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Transport_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_new	Space_Heat	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_new	Water_Heat	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Transport_new	Water_Tube_Boiler	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Transport_old	AC	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	0.00	0.00
Transport_old	Drying	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_old	Engine	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Transport_old	Fire_Tube_Boiler	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Transport_old	Furnace_Oven_Kiln	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Transport_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_old	Space_Heat	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_old	Water_Heat	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Transport_old	Water_Tube_Boiler	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07





**Southern California Gas Company  
Core Industrial G-10  
Gas Fuel Market Shares of New Customers  
Table CoreInd-12 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Prim_Metal_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prim_Metal_old	Space_Heat	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Prim_Metal_old	Water_Heat	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
Prim_Metal_old	Water_Tube_Boiler	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Textile_new	AC	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	0.00	0.00
Textile_new	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Textile_new	Engine	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	0.00	0.00
Textile_new	Fire_Tube_Boiler	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Textile_new	Furnace_Oven_Kiln	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Textile_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_new	Space_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Textile_new	Water_Heat	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Textile_new	Water_Tube_Boiler	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Textile_old	AC	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	0.00	0.00
Textile_old	Drying	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Textile_old	Engine	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	0.00	0.00
Textile_old	Fire_Tube_Boiler	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Textile_old	Furnace_Oven_Kiln	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Textile_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Textile_old	Space_Heat	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Textile_old	Water_Heat	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Textile_old	Water_Tube_Boiler	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Transport_new	AC	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	0.00	0.00
Transport_new	Drying	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_new	Engine	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Transport_new	Fire_Tube_Boiler	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Transport_new	Furnace_Oven_Kiln	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Transport_new	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_new	Space_Heat	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_new	Water_Heat	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Transport_new	Water_Tube_Boiler	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Transport_old	AC	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	0.00	0.00
Transport_old	Drying	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_old	Engine	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Transport_old	Fire_Tube_Boiler	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Transport_old	Furnace_Oven_Kiln	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Transport_old	Other	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Transport_old	Space_Heat	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Transport_old	Water_Heat	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Transport_old	Water_Tube_Boiler	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07



**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of Existing Customers**  
**Table CoreInd-13**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
Chemical_new	AC	1,315	1,313	1,313	1,309	1,308	1,307	1,307	1,307	1,307
Chemical_new	Drying	91,059	90,942	90,916	90,646	90,621	90,552	90,535	90,496	90,528
Chemical_new	Engine	3,851	3,846	3,845	3,833	3,832	3,829	3,829	3,827	3,828
Chemical_new	Fire_Tube_Boiler	223,099	222,812	222,749	222,088	222,025	221,856	221,815	221,721	221,797
Chemical_new	Furnace_Oven_Kiln	245,768	245,452	245,383	244,655	244,586	244,400	244,354	244,250	244,335
Chemical_new	Other	885	884	884	881	881	880	880	880	880
Chemical_new	Space_Heat	15,140	15,121	15,117	15,072	15,067	15,056	15,053	15,047	15,052
Chemical_new	Water_Heat	4,288	4,282	4,281	4,269	4,267	4,264	4,263	4,261	4,263
Chemical_new	Water_Tube_Boiler	181,186	180,953	180,903	180,366	180,314	180,177	180,144	180,067	180,130
Chemical_old	AC	1,315	1,313	1,313	1,309	1,308	1,307	1,307	1,307	1,307
Chemical_old	Drying	91,059	90,942	90,916	90,646	90,621	90,552	90,535	90,496	90,528
Chemical_old	Engine	3,851	3,846	3,845	3,833	3,832	3,829	3,829	3,827	3,828
Chemical_old	Fire_Tube_Boiler	223,099	222,812	222,749	222,088	222,025	221,856	221,815	221,721	221,798
Chemical_old	Furnace_Oven_Kiln	245,768	245,452	245,383	244,655	244,586	244,400	244,354	244,250	244,335
Chemical_old	Other	885	884	884	881	881	880	880	880	880
Chemical_old	Space_Heat	15,140	15,121	15,117	15,072	15,067	15,056	15,053	15,047	15,052
Chemical_old	Water_Heat	4,288	4,282	4,281	4,268	4,267	4,264	4,263	4,261	4,263
Chemical_old	Water_Tube_Boiler	181,186	180,953	180,903	180,366	180,314	180,177	180,144	180,067	180,130
Fab_Metal_new	AC	78	78	77	77	77	77	77	77	77
Fab_Metal_new	Drying	91,698	91,453	91,399	90,834	90,781	90,637	90,602	90,521	90,587
Fab_Metal_new	Engine	1,340	1,336	1,335	1,327	1,326	1,324	1,324	1,323	1,324
Fab_Metal_new	Fire_Tube_Boiler	497,780	496,447	496,157	493,090	492,798	492,018	491,826	491,390	491,745
Fab_Metal_new	Furnace_Oven_Kiln	305,630	304,812	304,634	302,751	302,571	302,092	301,975	301,707	301,925
Fab_Metal_new	Other	455	453	453	450	450	449	449	449	449
Fab_Metal_new	Space_Heat	2,321	2,315	2,314	2,299	2,298	2,294	2,293	2,291	2,293
Fab_Metal_new	Water_Heat	4,727	4,715	4,712	4,683	4,680	4,673	4,671	4,667	4,670
Fab_Metal_new	Water_Tube_Boiler	161,568	161,135	161,041	160,046	159,951	159,698	159,635	159,494	159,609
Fab_Metal_old	AC	78	78	77	77	77	77	77	77	77
Fab_Metal_old	Drying	91,698	91,453	91,399	90,834	90,781	90,637	90,602	90,521	90,587
Fab_Metal_old	Engine	1,340	1,336	1,335	1,327	1,326	1,324	1,324	1,323	1,324
Fab_Metal_old	Fire_Tube_Boiler	497,780	496,447	496,157	493,090	492,798	492,018	491,826	491,390	491,745
Fab_Metal_old	Furnace_Oven_Kiln	305,630	304,811	304,633	302,751	302,571	302,092	301,974	301,707	301,925
Fab_Metal_old	Other	455	453	453	450	450	449	449	449	449
Fab_Metal_old	Space_Heat	2,321	2,315	2,314	2,299	2,298	2,294	2,293	2,291	2,293
Fab_Metal_old	Water_Heat	4,727	4,715	4,712	4,683	4,680	4,673	4,671	4,667	4,670
Fab_Metal_old	Water_Tube_Boiler	161,568	161,135	161,041	160,046	159,951	159,698	159,635	159,494	159,609
Food_new	AC	46,717	46,618	46,596	46,368	46,346	46,288	46,273	46,241	46,267
Food_new	Drying	220,144	219,675	219,573	218,496	218,393	218,118	218,051	217,897	218,022
Food_new	Engine	15,513	15,480	15,473	15,397	15,389	15,370	15,365	15,354	15,363
Food_new	Fire_Tube_Boiler	130,600	130,323	130,262	129,623	129,562	129,399	129,359	129,268	129,342
Food_new	Furnace_Oven_Kiln	2,628	2,622	2,621	2,608	2,607	2,603	2,603	2,601	2,602
Food_new	Other	993	991	990	985	985	983	983	982	983
Food_new	Space_Heat	1,121	1,119	1,118	1,113	1,112	1,111	1,110	1,110	1,110
Food_new	Water_Heat	5,087	5,076	5,074	5,049	5,046	5,040	5,038	5,035	5,038
Food_new	Water_Tube_Boiler	123,784	123,520	123,463	122,857	122,799	122,645	122,607	122,521	122,591
Food_old	AC	46,717	46,618	46,596	46,368	46,346	46,288	46,273	46,241	46,267
Food_old	Drying	220,144	219,675	219,573	218,496	218,393	218,118	218,051	217,897	218,022
Food_old	Engine	15,513	15,480	15,473	15,397	15,389	15,370	15,365	15,354	15,363
Food_old	Fire_Tube_Boiler	130,600	130,323	130,262	129,623	129,562	129,399	129,359	129,268	129,342
Food_old	Furnace_Oven_Kiln	2,628	2,622	2,621	2,608	2,607	2,603	2,603	2,601	2,602
Food_old	Other	993	991	990	985	985	983	983	982	983
Food_old	Space_Heat	1,121	1,119	1,118	1,113	1,112	1,111	1,110	1,110	1,110

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of Existing Customers**  
**Table CoreInd-13 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
Food_old	Water_Heat	5,087	5,076	5,074	5,049	5,046	5,040	5,038	5,035	5,038
Food_old	Water_Tube_Boiler	123,784	123,520	123,463	122,857	122,799	122,645	122,607	122,521	122,591
Misc_new	AC	29	29	29	28	28	28	28	28	28
Misc_new	Drying	89,091	88,740	88,663	87,855	87,778	87,573	87,523	87,409	87,502
Misc_new	Engine	3,388	3,374	3,371	3,341	3,338	3,330	3,328	3,324	3,327
Misc_new	Fire_Tube_Boiler	327,847	326,551	326,270	323,297	323,014	322,261	322,075	321,654	321,997
Misc_new	Furnace_Oven_Kiln	104,510	104,097	104,008	103,060	102,970	102,729	102,670	102,536	102,645
Misc_new	Other	271	270	270	268	267	267	267	266	267
Misc_new	Space_Heat	2,905	2,894	2,891	2,865	2,862	2,856	2,854	2,850	2,853
Misc_new	Water_Heat	2,087	2,078	2,077	2,058	2,056	2,051	2,050	2,047	2,049
Misc_new	Water_Tube_Boiler	170,604	169,930	169,784	168,236	168,089	167,697	167,601	167,382	167,560
Misc_old	AC	29	29	29	28	28	28	28	28	28
Misc_old	Drying	89,091	88,740	88,663	87,855	87,778	87,573	87,523	87,409	87,502
Misc_old	Engine	3,388	3,374	3,371	3,341	3,338	3,330	3,328	3,324	3,327
Misc_old	Fire_Tube_Boiler	327,847	326,551	326,270	323,297	323,014	322,261	322,075	321,654	321,997
Misc_old	Furnace_Oven_Kiln	104,510	104,097	104,008	103,060	102,970	102,729	102,670	102,536	102,645
Misc_old	Other	271	270	270	268	267	267	267	266	267
Misc_old	Space_Heat	2,905	2,894	2,891	2,865	2,862	2,856	2,854	2,850	2,853
Misc_old	Water_Heat	2,087	2,078	2,077	2,058	2,056	2,051	2,050	2,047	2,049
Misc_old	Water_Tube_Boiler	170,604	169,930	169,784	168,236	168,089	167,697	167,601	167,382	167,560
Petroleum_new	AC	0	0	0	0	0	0	0	0	0
Petroleum_new	Drying	1,640,238	1,626,951	1,624,079	1,593,729	1,590,873	1,583,259	1,581,391	1,577,154	1,580,601
Petroleum_new	Engine	280,091	277,822	277,331	272,149	271,661	270,361	270,042	269,318	269,907
Petroleum_new	Fire_Tube_Boiler	251,789	249,749	249,308	244,650	244,211	243,042	242,756	242,105	242,634
Petroleum_new	Furnace_Oven_Kiln	2,762	2,740	2,735	2,684	2,679	2,666	2,663	2,656	2,662
Petroleum_new	Other	3,468	3,440	3,434	3,370	3,364	3,348	3,344	3,335	3,342
Petroleum_new	Space_Heat	1,302	1,291	1,289	1,265	1,262	1,256	1,255	1,252	1,254
Petroleum_new	Water_Heat	947	940	938	921	919	914	913	911	913
Petroleum_new	Water_Tube_Boiler	735,663	729,704	728,416	714,803	713,522	710,107	709,270	707,369	708,915
Petroleum_old	AC	0	0	0	0	0	0	0	0	0
Petroleum_old	Drying	1,640,238	1,626,951	1,624,079	1,593,729	1,590,873	1,583,259	1,581,391	1,577,154	1,580,601
Petroleum_old	Engine	290,951	288,594	288,084	282,701	282,194	280,844	280,512	279,761	280,372
Petroleum_old	Fire_Tube_Boiler	261,552	259,433	258,975	254,136	253,680	252,466	252,168	251,493	252,042
Petroleum_old	Furnace_Oven_Kiln	2,870	2,846	2,841	2,788	2,783	2,770	2,767	2,759	2,765
Petroleum_old	Other	3,468	3,440	3,434	3,370	3,364	3,348	3,344	3,335	3,342
Petroleum_old	Space_Heat	1,352	1,341	1,339	1,314	1,311	1,305	1,304	1,300	1,303
Petroleum_old	Water_Heat	984	976	974	956	954	950	949	946	948
Petroleum_old	Water_Tube_Boiler	764,188	757,998	756,659	742,519	741,189	737,641	736,771	734,797	736,403
Prim_Metal_new	AC	2,676	2,674	2,673	2,668	2,668	2,666	2,666	2,665	2,666
Prim_Metal_new	Drying	115,798	115,701	115,680	115,456	115,434	115,377	115,363	115,331	115,357
Prim_Metal_new	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_new	Fire_Tube_Boiler	616,468	615,950	615,838	614,645	614,531	614,226	614,151	613,981	614,120
Prim_Metal_new	Furnace_Oven_Kiln	307,971	307,712	307,656	307,060	307,003	306,851	306,813	306,728	306,798
Prim_Metal_new	Other	1,152	1,151	1,150	1,148	1,148	1,147	1,147	1,147	1,147
Prim_Metal_new	Space_Heat	1,932	1,931	1,930	1,927	1,926	1,925	1,925	1,925	1,925
Prim_Metal_new	Water_Heat	4,186	4,183	4,182	4,174	4,173	4,171	4,171	4,169	4,170
Prim_Metal_new	Water_Tube_Boiler	342,978	342,691	342,628	341,965	341,901	341,731	341,690	341,595	341,672
Prim_Metal_old	AC	2,780	2,777	2,777	2,772	2,771	2,770	2,769	2,769	2,769
Prim_Metal_old	Drying	120,287	120,186	120,164	119,931	119,909	119,850	119,835	119,802	119,829
Prim_Metal_old	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_old	Fire_Tube_Boiler	640,367	639,829	639,712	638,473	638,355	638,038	637,960	637,783	637,928
Prim_Metal_old	Furnace_Oven_Kiln	319,910	319,641	319,583	318,964	318,905	318,747	318,708	318,619	318,691

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of Existing Customers**  
**Table CoreInd-13 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
Prim_Metal_old	Other	1,152	1,151	1,150	1,148	1,148	1,147	1,147	1,147	1,147
Prim_Metal_old	Space_Heat	2,007	2,006	2,005	2,001	2,001	2,000	2,000	1,999	2,000
Prim_Metal_old	Water_Heat	4,349	4,345	4,344	4,336	4,335	4,333	4,332	4,331	4,332
Prim_Metal_old	Water_Tube_Boiler	356,275	355,976	355,911	355,221	355,156	354,979	354,936	354,837	354,918
Textile_new	AC	0	0	0	0	0	0	0	0	0
Textile_new	Drying	89,174	88,907	88,849	88,234	88,175	88,019	87,980	87,893	87,964
Textile_new	Engine	0	0	0	0	0	0	0	0	0
Textile_new	Fire_Tube_Boiler	89,801	89,532	89,473	88,854	88,795	88,637	88,599	88,511	88,582
Textile_new	Furnace_Oven_Kiln	26,467	26,387	26,370	26,188	26,170	26,124	26,112	26,086	26,108
Textile_new	Other	0	0	0	0	0	0	0	0	0
Textile_new	Space_Heat	450	449	449	446	445	444	444	444	444
Textile_new	Water_Heat	4,047	4,035	4,033	4,005	4,002	3,995	3,993	3,989	3,992
Textile_new	Water_Tube_Boiler	77,895	77,661	77,610	77,073	77,021	76,885	76,851	76,775	76,837
Textile_old	AC	0	0	0	0	0	0	0	0	0
Textile_old	Drying	92,625	92,347	92,286	91,648	91,587	91,424	91,384	91,294	91,368
Textile_old	Engine	0	0	0	0	0	0	0	0	0
Textile_old	Fire_Tube_Boiler	93,276	92,996	92,935	92,292	92,231	92,067	92,027	91,935	92,010
Textile_old	Furnace_Oven_Kiln	27,491	27,408	27,390	27,201	27,183	27,135	27,123	27,096	27,118
Textile_old	Other	0	0	0	0	0	0	0	0	0
Textile_old	Space_Heat	468	466	466	463	462	462	461	461	461
Textile_old	Water_Heat	4,204	4,191	4,189	4,160	4,157	4,150	4,148	4,144	4,147
Textile_old	Water_Tube_Boiler	80,908	80,666	80,613	80,055	80,002	79,860	79,825	79,746	79,810
Transport_new	AC	0	0	0	0	0	0	0	0	0
Transport_new	Drying	67,734	67,295	67,199	66,193	66,098	65,845	65,783	65,641	65,756
Transport_new	Engine	47,226	46,919	46,853	46,152	46,085	45,909	45,865	45,767	45,847
Transport_new	Fire_Tube_Boiler	334,472	332,301	331,831	326,863	326,394	325,142	324,835	324,138	324,705
Transport_new	Furnace_Oven_Kiln	126,600	125,779	125,601	123,720	123,543	123,069	122,953	122,689	122,904
Transport_new	Other	348	346	345	340	340	338	338	337	338
Transport_new	Space_Heat	11,796	11,719	11,703	11,528	11,511	11,467	11,456	11,431	11,451
Transport_new	Water_Heat	4,685	4,654	4,648	4,578	4,572	4,554	4,550	4,540	4,548
Transport_new	Water_Tube_Boiler	319,048	316,977	316,529	311,790	311,342	310,148	309,855	309,190	309,731
Transport_old	AC	0	0	0	0	0	0	0	0	0
Transport_old	Drying	67,734	67,295	67,199	66,193	66,098	65,845	65,783	65,641	65,756
Transport_old	Engine	47,226	46,919	46,853	46,152	46,085	45,909	45,865	45,767	45,847
Transport_old	Fire_Tube_Boiler	334,472	332,301	331,831	326,863	326,394	325,142	324,835	324,138	324,705
Transport_old	Furnace_Oven_Kiln	126,600	125,779	125,601	123,720	123,543	123,069	122,953	122,689	122,904
Transport_old	Other	348	346	345	340	340	338	338	337	338
Transport_old	Space_Heat	11,796	11,719	11,703	11,528	11,511	11,467	11,456	11,431	11,451
Transport_old	Water_Heat	4,685	4,654	4,648	4,578	4,572	4,554	4,550	4,540	4,548
Transport_old	Water_Tube_Boiler	319,048	316,977	316,529	311,790	311,342	310,148	309,855	309,190	309,732

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of Existing Customers**  
**Table CoreInd-13 (Cont.)**

Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
Chemical_new	AC	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307
Chemical_new	Drying	90,533	90,522	90,518	90,535	90,535	90,523	90,523	90,528	90,527
Chemical_new	Engine	3,829	3,828	3,828	3,829	3,829	3,828	3,828	3,828	3,828
Chemical_new	Fire_Tube_Boiler	221,811	221,785	221,774	221,816	221,817	221,786	221,786	221,798	221,796
Chemical_new	Furnace_Oven_Kiln	244,349	244,321	244,309	244,355	244,356	244,322	244,323	244,336	244,333
Chemical_new	Other	880	880	880	880	880	880	880	880	880
Chemical_new	Space_Heat	15,053	15,051	15,050	15,053	15,053	15,051	15,051	15,052	15,052
Chemical_new	Water_Heat	4,263	4,263	4,262	4,263	4,263	4,263	4,263	4,263	4,263
Chemical_new	Water_Tube_Boiler	180,140	180,119	180,110	180,145	180,145	180,120	180,121	180,130	180,129
Chemical_old	AC	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307
Chemical_old	Drying	90,533	90,522	90,518	90,535	90,535	90,523	90,523	90,528	90,527
Chemical_old	Engine	3,829	3,828	3,828	3,829	3,829	3,828	3,828	3,828	3,828
Chemical_old	Fire_Tube_Boiler	221,811	221,785	221,774	221,816	221,817	221,786	221,786	221,798	221,796
Chemical_old	Furnace_Oven_Kiln	244,349	244,321	244,309	244,355	244,356	244,322	244,323	244,336	244,333
Chemical_old	Other	880	880	880	880	880	880	880	880	880
Chemical_old	Space_Heat	15,053	15,051	15,050	15,053	15,053	15,051	15,051	15,052	15,052
Chemical_old	Water_Heat	4,263	4,263	4,262	4,263	4,263	4,263	4,263	4,263	4,263
Chemical_old	Water_Tube_Boiler	180,140	180,119	180,110	180,145	180,145	180,120	180,121	180,130	180,129
Fab_Metal_new	AC	77	77	77	77	77	77	77	77	77
Fab_Metal_new	Drying	90,598	90,576	90,567	90,603	90,603	90,577	90,577	90,587	90,586
Fab_Metal_new	Engine	1,324	1,323	1,323	1,324	1,324	1,323	1,323	1,324	1,324
Fab_Metal_new	Fire_Tube_Boiler	491,806	491,687	491,637	491,832	491,833	491,693	491,694	491,749	491,740
Fab_Metal_new	Furnace_Oven_Kiln	301,962	301,889	301,858	301,978	301,979	301,893	301,894	301,927	301,922
Fab_Metal_new	Other	449	449	449	449	449	449	449	449	449
Fab_Metal_new	Space_Heat	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293
Fab_Metal_new	Water_Heat	4,671	4,670	4,669	4,671	4,671	4,670	4,670	4,670	4,670
Fab_Metal_new	Water_Tube_Boiler	159,629	159,590	159,574	159,637	159,638	159,592	159,593	159,611	159,607
Fab_Metal_old	AC	77	77	77	77	77	77	77	77	77
Fab_Metal_old	Drying	90,598	90,576	90,567	90,603	90,603	90,577	90,577	90,587	90,586
Fab_Metal_old	Engine	1,324	1,323	1,323	1,324	1,324	1,323	1,323	1,324	1,324
Fab_Metal_old	Fire_Tube_Boiler	491,806	491,687	491,637	491,832	491,833	491,693	491,694	491,749	491,740
Fab_Metal_old	Furnace_Oven_Kiln	301,962	301,889	301,858	301,978	301,979	301,893	301,894	301,927	301,922
Fab_Metal_old	Other	449	449	449	449	449	449	449	449	449
Fab_Metal_old	Space_Heat	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293
Fab_Metal_old	Water_Heat	4,671	4,670	4,669	4,671	4,671	4,670	4,670	4,670	4,670
Fab_Metal_old	Water_Tube_Boiler	159,629	159,590	159,574	159,637	159,638	159,592	159,593	159,610	159,607
Food_new	AC	46,272	46,263	46,259	46,274	46,274	46,263	46,263	46,268	46,267
Food_new	Drying	218,044	218,002	217,984	218,053	218,053	218,004	218,004	218,024	218,020
Food_new	Engine	15,365	15,362	15,361	15,365	15,365	15,362	15,362	15,363	15,363
Food_new	Fire_Tube_Boiler	129,355	129,330	129,319	129,360	129,360	129,331	129,331	129,343	129,341
Food_new	Furnace_Oven_Kiln	2,603	2,602	2,602	2,603	2,603	2,602	2,602	2,602	2,602
Food_new	Other	983	983	983	983	983	983	983	983	983
Food_new	Space_Heat	1,110	1,110	1,110	1,110	1,111	1,110	1,110	1,110	1,110
Food_new	Water_Heat	5,038	5,037	5,037	5,039	5,039	5,037	5,037	5,038	5,038
Food_new	Water_Tube_Boiler	122,603	122,579	122,569	122,608	122,608	122,581	122,581	122,592	122,590
Food_old	AC	46,272	46,263	46,259	46,274	46,274	46,263	46,263	46,268	46,267
Food_old	Drying	218,044	218,002	217,984	218,053	218,053	218,004	218,004	218,024	218,020
Food_old	Engine	15,365	15,362	15,361	15,365	15,365	15,362	15,362	15,363	15,363
Food_old	Fire_Tube_Boiler	129,355	129,330	129,319	129,360	129,360	129,331	129,331	129,343	129,341
Food_old	Furnace_Oven_Kiln	2,603	2,602	2,602	2,603	2,603	2,602	2,602	2,602	2,602
Food_old	Other	983	983	983	983	983	983	983	983	983
Food_old	Space_Heat	1,110	1,110	1,110	1,110	1,111	1,110	1,110	1,110	1,110

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of Existing Customers**  
**Table CoreInd-13 (Cont.)**

Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
Food_old	Water_Heat	5,038	5,037	5,037	5,039	5,039	5,037	5,037	5,038	5,038
Food_old	Water_Tube_Boiler	122,603	122,579	122,569	122,608	122,608	122,581	122,581	122,592	122,590
Misc_new	AC	28	28	28	28	28	28	28	28	28
Misc_new	Drying	87,518	87,487	87,473	87,525	87,525	87,488	87,489	87,503	87,500
Misc_new	Engine	3,328	3,327	3,326	3,328	3,328	3,327	3,327	3,327	3,327
Misc_new	Fire_Tube_Boiler	322,056	321,941	321,892	322,081	322,082	321,947	321,948	322,001	321,992
Misc_new	Furnace_Oven_Kiln	102,664	102,627	102,612	102,672	102,672	102,629	102,630	102,647	102,644
Misc_new	Other	267	267	267	267	267	267	267	267	267
Misc_new	Space_Heat	2,854	2,853	2,852	2,854	2,854	2,853	2,853	2,853	2,853
Misc_new	Water_Heat	2,050	2,049	2,049	2,050	2,050	2,049	2,049	2,049	2,049
Misc_new	Water_Tube_Boiler	167,590	167,531	167,505	167,604	167,604	167,534	167,534	167,562	167,557
Misc_old	AC	28	28	28	28	28	28	28	28	28
Misc_old	Drying	87,518	87,487	87,473	87,525	87,525	87,488	87,489	87,503	87,500
Misc_old	Engine	3,328	3,327	3,326	3,328	3,328	3,327	3,327	3,327	3,327
Misc_old	Fire_Tube_Boiler	322,056	321,941	321,892	322,081	322,082	321,947	321,948	322,001	321,992
Misc_old	Furnace_Oven_Kiln	102,664	102,627	102,612	102,672	102,672	102,629	102,630	102,647	102,644
Misc_old	Other	267	267	267	267	267	267	267	267	267
Misc_old	Space_Heat	2,854	2,853	2,852	2,854	2,854	2,853	2,853	2,853	2,853
Misc_old	Water_Heat	2,050	2,049	2,049	2,050	2,050	2,049	2,049	2,049	2,049
Misc_old	Water_Tube_Boiler	167,590	167,531	167,505	167,604	167,604	167,534	167,534	167,562	167,557
Petroleum_new	AC	0	0	0	0	0	0	0	0	0
Petroleum_new	Drying	1,581,191	1,580,035	1,579,544	1,581,444	1,581,456	1,580,092	1,580,104	1,580,637	1,580,547
Petroleum_new	Engine	270,008	269,810	269,726	270,051	270,053	269,820	269,822	269,913	269,898
Petroleum_new	Fire_Tube_Boiler	242,725	242,547	242,472	242,764	242,766	242,556	242,558	242,640	242,626
Petroleum_new	Furnace_Oven_Kiln	2,663	2,661	2,660	2,663	2,663	2,661	2,661	2,662	2,662
Petroleum_new	Other	3,343	3,341	3,340	3,344	3,344	3,341	3,341	3,342	3,342
Petroleum_new	Space_Heat	1,255	1,254	1,253	1,255	1,255	1,254	1,254	1,254	1,254
Petroleum_new	Water_Heat	913	913	912	913	913	913	913	913	913
Petroleum_new	Water_Tube_Boiler	709,180	708,662	708,441	709,294	709,299	708,687	708,693	708,931	708,891
Petroleum_old	AC	0	0	0	0	0	0	0	0	0
Petroleum_old	Drying	1,581,191	1,580,035	1,579,544	1,581,444	1,581,456	1,580,092	1,580,104	1,580,637	1,580,547
Petroleum_old	Engine	280,477	280,272	280,185	280,522	280,524	280,282	280,284	280,379	280,363
Petroleum_old	Fire_Tube_Boiler	252,136	251,952	251,874	252,177	252,179	251,961	251,963	252,048	252,034
Petroleum_old	Furnace_Oven_Kiln	2,766	2,764	2,763	2,767	2,767	2,764	2,764	2,765	2,765
Petroleum_old	Other	3,343	3,341	3,340	3,344	3,344	3,341	3,341	3,342	3,342
Petroleum_old	Space_Heat	1,303	1,302	1,302	1,304	1,304	1,302	1,303	1,303	1,303
Petroleum_old	Water_Heat	949	948	948	949	949	948	948	948	948
Petroleum_old	Water_Tube_Boiler	736,678	736,140	735,910	736,796	736,801	736,166	736,172	736,420	736,378
Prim_Metal_new	AC	2,666	2,666	2,666	2,666	2,666	2,666	2,666	2,666	2,666
Prim_Metal_new	Drying	115,361	115,353	115,349	115,363	115,363	115,353	115,353	115,357	115,356
Prim_Metal_new	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_new	Fire_Tube_Boiler	614,144	614,097	614,077	614,154	614,154	614,099	614,100	614,121	614,118
Prim_Metal_new	Furnace_Oven_Kiln	306,810	306,786	306,776	306,815	306,815	306,788	306,788	306,798	306,797
Prim_Metal_new	Other	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147
Prim_Metal_new	Space_Heat	1,925	1,925	1,925	1,925	1,925	1,925	1,925	1,925	1,925
Prim_Metal_new	Water_Heat	4,171	4,170	4,170	4,171	4,171	4,170	4,170	4,170	4,170
Prim_Metal_new	Water_Tube_Boiler	341,685	341,660	341,649	341,691	341,691	341,661	341,661	341,673	341,671
Prim_Metal_old	AC	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769
Prim_Metal_old	Drying	119,834	119,824	119,821	119,836	119,836	119,825	119,825	119,829	119,829
Prim_Metal_old	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_old	Fire_Tube_Boiler	637,952	637,904	637,883	637,963	637,963	637,906	637,907	637,929	637,925
Prim_Metal_old	Furnace_Oven_Kiln	318,704	318,680	318,669	318,709	318,709	318,681	318,681	318,692	318,690

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of Existing Customers**  
**Table CoreInd-13 (Cont.)**

Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
Prim_Metal_old	Other	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147
Prim_Metal_old	Space_Heat	2,000	2,000	1,999	2,000	2,000	2,000	2,000	2,000	2,000
Prim_Metal_old	Water_Heat	4,332	4,332	4,332	4,332	4,332	4,332	4,332	4,332	4,332
Prim_Metal_old	Water_Tube_Boiler	354,932	354,905	354,893	354,937	354,938	354,906	354,906	354,919	354,917
Textile_new	AC	0	0	0	0	0	0	0	0	0
Textile_new	Drying	87,976	87,952	87,942	87,981	87,982	87,954	87,954	87,965	87,963
Textile_new	Engine	0	0	0	0	0	0	0	0	0
Textile_new	Fire_Tube_Boiler	88,595	88,571	88,560	88,600	88,600	88,572	88,572	88,583	88,581
Textile_new	Furnace_Oven_Kiln	26,111	26,104	26,101	26,113	26,113	26,104	26,105	26,108	26,107
Textile_new	Other	0	0	0	0	0	0	0	0	0
Textile_new	Space_Heat	444	444	444	444	444	444	444	444	444
Textile_new	Water_Heat	3,993	3,992	3,991	3,993	3,993	3,992	3,992	3,992	3,992
Textile_new	Water_Tube_Boiler	76,848	76,827	76,818	76,852	76,853	76,828	76,828	76,838	76,836
Textile_old	AC	0	0	0	0	0	0	0	0	0
Textile_old	Drying	91,380	91,355	91,345	91,386	91,386	91,357	91,357	91,368	91,366
Textile_old	Engine	0	0	0	0	0	0	0	0	0
Textile_old	Fire_Tube_Boiler	92,023	91,998	91,987	92,028	92,028	91,999	91,999	92,011	92,009
Textile_old	Furnace_Oven_Kiln	27,121	27,114	27,111	27,123	27,123	27,114	27,115	27,118	27,117
Textile_old	Other	0	0	0	0	0	0	0	0	0
Textile_old	Space_Heat	461	461	461	461	461	461	461	461	461
Textile_old	Water_Heat	4,148	4,146	4,146	4,148	4,148	4,146	4,146	4,147	4,147
Textile_old	Water_Tube_Boiler	79,821	79,800	79,790	79,826	79,826	79,801	79,801	79,811	79,809
Transport_new	AC	0	0	0	0	0	0	0	0	0
Transport_new	Drying	65,776	65,737	65,721	65,784	65,785	65,739	65,740	65,758	65,755
Transport_new	Engine	45,861	45,834	45,822	45,867	45,867	45,835	45,835	45,848	45,846
Transport_new	Fire_Tube_Boiler	324,803	324,612	324,531	324,844	324,846	324,622	324,624	324,711	324,697
Transport_new	Furnace_Oven_Kiln	122,940	122,868	122,838	122,956	122,957	122,872	122,873	122,906	122,900
Transport_new	Other	338	338	338	338	338	338	338	338	338
Transport_new	Space_Heat	11,455	11,448	11,445	11,456	11,456	11,449	11,449	11,452	11,451
Transport_new	Water_Heat	4,549	4,547	4,546	4,550	4,550	4,547	4,547	4,548	4,548
Transport_new	Water_Tube_Boiler	309,824	309,643	309,565	309,864	309,866	309,652	309,654	309,737	309,723
Transport_old	AC	0	0	0	0	0	0	0	0	0
Transport_old	Drying	65,776	65,737	65,721	65,784	65,785	65,739	65,740	65,758	65,755
Transport_old	Engine	45,861	45,834	45,822	45,866	45,867	45,835	45,835	45,848	45,846
Transport_old	Fire_Tube_Boiler	324,802	324,612	324,531	324,844	324,846	324,622	324,624	324,711	324,696
Transport_old	Furnace_Oven_Kiln	122,940	122,868	122,838	122,956	122,957	122,872	122,873	122,906	122,900
Transport_old	Other	338	338	338	338	338	338	338	338	338
Transport_old	Space_Heat	11,455	11,448	11,445	11,456	11,456	11,449	11,449	11,452	11,451
Transport_old	Water_Heat	4,549	4,547	4,546	4,550	4,550	4,547	4,547	4,548	4,548
Transport_old	Water_Tube_Boiler	309,824	309,643	309,566	309,864	309,866	309,652	309,654	309,737	309,723

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of New Customers**  
**Table CoreInd-14**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
Chemical_new	AC	1,315	1,313	1,313	1,309	1,308	1,307	1,307	1,307	1,307
Chemical_new	Drying	91,059	90,942	90,916	90,646	90,621	90,552	90,535	90,496	90,528
Chemical_new	Engine	3,851	3,846	3,845	3,833	3,832	3,829	3,829	3,827	3,828
Chemical_new	Fire_Tube_Boiler	223,099	222,812	222,749	222,088	222,025	221,856	221,815	221,721	221,797
Chemical_new	Furnace_Oven_Kiln	245,768	245,452	245,383	244,655	244,586	244,400	244,354	244,250	244,335
Chemical_new	Other	885	884	884	881	881	880	880	880	880
Chemical_new	Space_Heat	15,140	15,121	15,117	15,072	15,067	15,056	15,053	15,047	15,052
Chemical_new	Water_Heat	4,288	4,282	4,281	4,269	4,267	4,264	4,263	4,261	4,263
Chemical_new	Water_Tube_Boiler	181,186	180,953	180,903	180,366	180,314	180,177	180,144	180,067	180,130
Chemical_old	AC	1,315	1,313	1,313	1,309	1,308	1,307	1,307	1,307	1,307
Chemical_old	Drying	91,059	90,942	90,916	90,646	90,621	90,552	90,535	90,496	90,528
Chemical_old	Engine	3,851	3,846	3,845	3,833	3,832	3,829	3,829	3,827	3,828
Chemical_old	Fire_Tube_Boiler	223,099	222,812	222,749	222,088	222,025	221,856	221,815	221,721	221,798
Chemical_old	Furnace_Oven_Kiln	245,768	245,452	245,383	244,655	244,586	244,400	244,354	244,250	244,335
Chemical_old	Other	885	884	884	881	881	880	880	880	880
Chemical_old	Space_Heat	15,140	15,121	15,117	15,072	15,067	15,056	15,053	15,047	15,052
Chemical_old	Water_Heat	4,288	4,282	4,281	4,268	4,267	4,264	4,263	4,261	4,263
Chemical_old	Water_Tube_Boiler	181,186	180,953	180,903	180,366	180,314	180,177	180,144	180,067	180,130
Fab_Metal_new	AC	78	78	77	77	77	77	77	77	77
Fab_Metal_new	Drying	91,698	91,453	91,399	90,834	90,781	90,637	90,602	90,521	90,587
Fab_Metal_new	Engine	1,340	1,336	1,335	1,327	1,326	1,324	1,324	1,323	1,324
Fab_Metal_new	Fire_Tube_Boiler	497,780	496,447	496,157	493,090	492,798	492,018	491,826	491,390	491,745
Fab_Metal_new	Furnace_Oven_Kiln	305,630	304,812	304,634	302,751	302,571	302,092	301,975	301,707	301,925
Fab_Metal_new	Other	455	453	453	450	450	449	449	449	449
Fab_Metal_new	Space_Heat	2,321	2,315	2,314	2,299	2,298	2,294	2,293	2,291	2,293
Fab_Metal_new	Water_Heat	4,727	4,715	4,712	4,683	4,680	4,673	4,671	4,667	4,670
Fab_Metal_new	Water_Tube_Boiler	161,568	161,135	161,041	160,046	159,951	159,698	159,635	159,494	159,609
Fab_Metal_old	AC	78	78	77	77	77	77	77	77	77
Fab_Metal_old	Drying	91,698	91,453	91,399	90,834	90,781	90,637	90,602	90,521	90,587
Fab_Metal_old	Engine	1,340	1,336	1,335	1,327	1,326	1,324	1,324	1,323	1,324
Fab_Metal_old	Fire_Tube_Boiler	497,780	496,447	496,157	493,090	492,798	492,018	491,826	491,390	491,745
Fab_Metal_old	Furnace_Oven_Kiln	305,630	304,811	304,633	302,751	302,571	302,092	301,974	301,707	301,925
Fab_Metal_old	Other	455	453	453	450	450	449	449	449	449
Fab_Metal_old	Space_Heat	2,321	2,315	2,314	2,299	2,298	2,294	2,293	2,291	2,293
Fab_Metal_old	Water_Heat	4,727	4,715	4,712	4,683	4,680	4,673	4,671	4,667	4,670
Fab_Metal_old	Water_Tube_Boiler	161,568	161,135	161,041	160,046	159,951	159,698	159,635	159,494	159,609
Food_new	AC	46,717	46,618	46,596	46,368	46,346	46,288	46,273	46,241	46,267
Food_new	Drying	220,144	219,675	219,573	218,496	218,393	218,118	218,051	217,897	218,022
Food_new	Engine	15,513	15,480	15,473	15,397	15,389	15,370	15,365	15,354	15,363
Food_new	Fire_Tube_Boiler	130,600	130,323	130,262	129,623	129,562	129,399	129,359	129,268	129,342
Food_new	Furnace_Oven_Kiln	2,628	2,622	2,621	2,608	2,607	2,603	2,603	2,601	2,602
Food_new	Other	993	991	990	985	985	983	983	982	983
Food_new	Space_Heat	1,121	1,119	1,118	1,113	1,112	1,111	1,110	1,110	1,110
Food_new	Water_Heat	5,087	5,076	5,074	5,049	5,046	5,040	5,038	5,035	5,038
Food_new	Water_Tube_Boiler	123,784	123,520	123,463	122,857	122,799	122,645	122,607	122,521	122,591
Food_old	AC	46,717	46,618	46,596	46,368	46,346	46,288	46,273	46,241	46,267
Food_old	Drying	220,144	219,675	219,573	218,496	218,393	218,118	218,051	217,897	218,022
Food_old	Engine	15,513	15,480	15,473	15,397	15,389	15,370	15,365	15,354	15,363
Food_old	Fire_Tube_Boiler	130,600	130,323	130,262	129,623	129,562	129,399	129,359	129,268	129,342
Food_old	Furnace_Oven_Kiln	2,628	2,622	2,621	2,608	2,607	2,603	2,603	2,601	2,602
Food_old	Other	993	991	990	985	985	983	983	982	983
Food_old	Space_Heat	1,121	1,119	1,118	1,113	1,112	1,111	1,110	1,110	1,110

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of New Customers**  
**Table CoreInd-14 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
Food_old	Water_Heat	5,087	5,076	5,074	5,049	5,046	5,040	5,038	5,035	5,038
Food_old	Water_Tube_Boiler	123,784	123,520	123,463	122,857	122,799	122,645	122,607	122,521	122,591
Misc_new	AC	29	29	29	28	28	28	28	28	28
Misc_new	Drying	89,091	88,740	88,663	87,855	87,778	87,573	87,523	87,409	87,502
Misc_new	Engine	3,388	3,374	3,371	3,341	3,338	3,330	3,328	3,324	3,327
Misc_new	Fire_Tube_Boiler	327,847	326,551	326,270	323,297	323,014	322,261	322,075	321,654	321,997
Misc_new	Furnace_Oven_Kiln	104,510	104,097	104,008	103,060	102,970	102,729	102,670	102,536	102,645
Misc_new	Other	271	270	270	268	267	267	267	266	267
Misc_new	Space_Heat	2,905	2,894	2,891	2,865	2,862	2,856	2,854	2,850	2,853
Misc_new	Water_Heat	2,087	2,078	2,077	2,058	2,056	2,051	2,050	2,047	2,049
Misc_new	Water_Tube_Boiler	170,604	169,930	169,784	168,236	168,089	167,697	167,601	167,382	167,560
Misc_old	AC	29	29	29	28	28	28	28	28	28
Misc_old	Drying	89,091	88,740	88,663	87,855	87,778	87,573	87,523	87,409	87,502
Misc_old	Engine	3,388	3,374	3,371	3,341	3,338	3,330	3,328	3,324	3,327
Misc_old	Fire_Tube_Boiler	327,847	326,551	326,270	323,297	323,014	322,261	322,075	321,654	321,997
Misc_old	Furnace_Oven_Kiln	104,510	104,097	104,008	103,060	102,970	102,729	102,670	102,536	102,645
Misc_old	Other	271	270	270	268	267	267	267	266	267
Misc_old	Space_Heat	2,905	2,894	2,891	2,865	2,862	2,856	2,854	2,850	2,853
Misc_old	Water_Heat	2,087	2,078	2,077	2,058	2,056	2,051	2,050	2,047	2,049
Misc_old	Water_Tube_Boiler	170,604	169,930	169,784	168,236	168,089	167,697	167,601	167,382	167,560
Petroleum_new	AC	0	0	0	0	0	0	0	0	0
Petroleum_new	Drying	1,640,238	1,626,951	1,624,079	1,593,729	1,590,873	1,583,259	1,581,391	1,577,154	1,580,601
Petroleum_new	Engine	280,091	277,822	277,331	272,149	271,661	270,361	270,042	269,318	269,907
Petroleum_new	Fire_Tube_Boiler	251,789	249,749	249,308	244,650	244,211	243,042	242,756	242,105	242,634
Petroleum_new	Furnace_Oven_Kiln	2,762	2,740	2,735	2,684	2,679	2,666	2,663	2,656	2,662
Petroleum_new	Other	3,468	3,440	3,434	3,370	3,364	3,348	3,344	3,335	3,342
Petroleum_new	Space_Heat	1,302	1,291	1,289	1,265	1,262	1,256	1,255	1,252	1,254
Petroleum_new	Water_Heat	947	940	938	921	919	914	913	911	913
Petroleum_new	Water_Tube_Boiler	735,663	729,704	728,416	714,803	713,522	710,107	709,270	707,369	708,915
Petroleum_old	AC	0	0	0	0	0	0	0	0	0
Petroleum_old	Drying	1,640,238	1,626,951	1,624,079	1,593,729	1,590,873	1,583,259	1,581,391	1,577,154	1,580,601
Petroleum_old	Engine	290,951	288,594	288,084	282,701	282,194	280,844	280,512	279,761	280,372
Petroleum_old	Fire_Tube_Boiler	261,552	259,433	258,975	254,136	253,680	252,466	252,168	251,493	252,042
Petroleum_old	Furnace_Oven_Kiln	2,870	2,846	2,841	2,788	2,783	2,770	2,767	2,759	2,765
Petroleum_old	Other	3,468	3,440	3,434	3,370	3,364	3,348	3,344	3,335	3,342
Petroleum_old	Space_Heat	1,352	1,341	1,339	1,314	1,311	1,305	1,304	1,300	1,303
Petroleum_old	Water_Heat	984	976	974	956	954	950	949	946	948
Petroleum_old	Water_Tube_Boiler	764,188	757,998	756,659	742,519	741,189	737,641	736,771	734,797	736,403
Prim_Metal_new	AC	2,676	2,674	2,673	2,668	2,668	2,666	2,666	2,665	2,666
Prim_Metal_new	Drying	115,798	115,701	115,680	115,456	115,434	115,377	115,363	115,331	115,357
Prim_Metal_new	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_new	Fire_Tube_Boiler	616,468	615,950	615,838	614,645	614,531	614,226	614,151	613,981	614,120
Prim_Metal_new	Furnace_Oven_Kiln	307,971	307,712	307,656	307,060	307,003	306,851	306,813	306,728	306,798
Prim_Metal_new	Other	1,152	1,151	1,150	1,148	1,148	1,147	1,147	1,147	1,147
Prim_Metal_new	Space_Heat	1,932	1,931	1,930	1,927	1,926	1,925	1,925	1,925	1,925
Prim_Metal_new	Water_Heat	4,186	4,183	4,182	4,174	4,173	4,171	4,171	4,169	4,170
Prim_Metal_new	Water_Tube_Boiler	342,978	342,691	342,628	341,965	341,901	341,731	341,690	341,595	341,672
Prim_Metal_old	AC	2,780	2,777	2,777	2,772	2,771	2,770	2,769	2,769	2,769
Prim_Metal_old	Drying	120,287	120,186	120,164	119,931	119,909	119,850	119,835	119,802	119,829
Prim_Metal_old	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_old	Fire_Tube_Boiler	640,367	639,829	639,712	638,473	638,355	638,038	637,960	637,783	637,928
Prim_Metal_old	Furnace_Oven_Kiln	319,910	319,641	319,583	318,964	318,905	318,747	318,708	318,619	318,691



**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of New Customers**  
**Table CoreInd-14 (Cont.)**

Segments	End Use	2023	2024	2025	2026	2027	2028	2029	2030	2031
Prim_Metal_old	Other	1,152	1,151	1,150	1,148	1,148	1,147	1,147	1,147	1,147
Prim_Metal_old	Space_Heat	2,007	2,006	2,005	2,001	2,001	2,000	2,000	1,999	2,000
Prim_Metal_old	Water_Heat	4,349	4,345	4,344	4,336	4,335	4,333	4,332	4,331	4,332
Prim_Metal_old	Water_Tube_Boiler	356,275	355,976	355,911	355,221	355,156	354,979	354,936	354,837	354,918
Textile_new	AC	0	0	0	0	0	0	0	0	0
Textile_new	Drying	89,174	88,907	88,849	88,234	88,175	88,019	87,980	87,893	87,964
Textile_new	Engine	0	0	0	0	0	0	0	0	0
Textile_new	Fire_Tube_Boiler	89,801	89,532	89,473	88,854	88,795	88,637	88,599	88,511	88,582
Textile_new	Furnace_Oven_Kiln	26,467	26,387	26,370	26,188	26,170	26,124	26,112	26,086	26,108
Textile_new	Other	0	0	0	0	0	0	0	0	0
Textile_new	Space_Heat	450	449	449	446	445	444	444	444	444
Textile_new	Water_Heat	4,047	4,035	4,033	4,005	4,002	3,995	3,993	3,989	3,992
Textile_new	Water_Tube_Boiler	77,895	77,661	77,610	77,073	77,021	76,885	76,851	76,775	76,837
Textile_old	AC	0	0	0	0	0	0	0	0	0
Textile_old	Drying	92,625	92,347	92,286	91,648	91,587	91,424	91,384	91,294	91,368
Textile_old	Engine	0	0	0	0	0	0	0	0	0
Textile_old	Fire_Tube_Boiler	93,276	92,996	92,935	92,292	92,231	92,067	92,027	91,935	92,010
Textile_old	Furnace_Oven_Kiln	27,491	27,408	27,390	27,201	27,183	27,135	27,123	27,096	27,118
Textile_old	Other	0	0	0	0	0	0	0	0	0
Textile_old	Space_Heat	468	466	466	463	462	462	461	461	461
Textile_old	Water_Heat	4,204	4,191	4,189	4,160	4,157	4,150	4,148	4,144	4,147
Textile_old	Water_Tube_Boiler	80,908	80,666	80,613	80,055	80,002	79,860	79,825	79,746	79,810
Transport_new	AC	0	0	0	0	0	0	0	0	0
Transport_new	Drying	67,734	67,295	67,199	66,193	66,098	65,845	65,783	65,641	65,756
Transport_new	Engine	47,226	46,919	46,853	46,152	46,085	45,909	45,865	45,767	45,847
Transport_new	Fire_Tube_Boiler	334,472	332,301	331,831	326,863	326,394	325,142	324,835	324,138	324,705
Transport_new	Furnace_Oven_Kiln	126,600	125,779	125,601	123,720	123,543	123,069	122,953	122,689	122,904
Transport_new	Other	348	346	345	340	340	338	338	337	338
Transport_new	Space_Heat	11,796	11,719	11,703	11,528	11,511	11,467	11,456	11,431	11,451
Transport_new	Water_Heat	4,685	4,654	4,648	4,578	4,572	4,554	4,550	4,540	4,548
Transport_new	Water_Tube_Boiler	319,048	316,977	316,529	311,790	311,342	310,148	309,855	309,190	309,731
Transport_old	AC	0	0	0	0	0	0	0	0	0
Transport_old	Drying	67,734	67,295	67,199	66,193	66,098	65,845	65,783	65,641	65,756
Transport_old	Engine	47,226	46,919	46,853	46,152	46,085	45,909	45,865	45,767	45,847
Transport_old	Fire_Tube_Boiler	334,472	332,301	331,831	326,863	326,394	325,142	324,835	324,138	324,705
Transport_old	Furnace_Oven_Kiln	126,600	125,779	125,601	123,720	123,543	123,069	122,953	122,689	122,904
Transport_old	Other	348	346	345	340	340	338	338	337	338
Transport_old	Space_Heat	11,796	11,719	11,703	11,528	11,511	11,467	11,456	11,431	11,451
Transport_old	Water_Heat	4,685	4,654	4,648	4,578	4,572	4,554	4,550	4,540	4,548
Transport_old	Water_Tube_Boiler	319,048	316,977	316,529	311,790	311,342	310,148	309,855	309,190	309,732

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of New Customers**  
**Table CoreInd-14 (Cont.)**

Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
Chemical_new	AC	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307
Chemical_new	Drying	90,533	90,522	90,518	90,535	90,535	90,523	90,523	90,528	90,527
Chemical_new	Engine	3,829	3,828	3,828	3,829	3,829	3,828	3,828	3,828	3,828
Chemical_new	Fire_Tube_Boiler	221,811	221,785	221,774	221,816	221,817	221,786	221,786	221,798	221,796
Chemical_new	Furnace_Oven_Kiln	244,349	244,321	244,309	244,355	244,356	244,322	244,323	244,336	244,333
Chemical_new	Other	880	880	880	880	880	880	880	880	880
Chemical_new	Space_Heat	15,053	15,051	15,050	15,053	15,053	15,051	15,051	15,052	15,052
Chemical_new	Water_Heat	4,263	4,263	4,262	4,263	4,263	4,263	4,263	4,263	4,263
Chemical_new	Water_Tube_Boiler	180,140	180,119	180,110	180,145	180,145	180,120	180,121	180,130	180,129
Chemical_old	AC	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307	1,307
Chemical_old	Drying	90,533	90,522	90,518	90,535	90,535	90,523	90,523	90,528	90,527
Chemical_old	Engine	3,829	3,828	3,828	3,829	3,829	3,828	3,828	3,828	3,828
Chemical_old	Fire_Tube_Boiler	221,811	221,785	221,774	221,816	221,817	221,786	221,786	221,798	221,796
Chemical_old	Furnace_Oven_Kiln	244,349	244,321	244,309	244,355	244,356	244,322	244,323	244,336	244,333
Chemical_old	Other	880	880	880	880	880	880	880	880	880
Chemical_old	Space_Heat	15,053	15,051	15,050	15,053	15,053	15,051	15,051	15,052	15,052
Chemical_old	Water_Heat	4,263	4,263	4,262	4,263	4,263	4,263	4,263	4,263	4,263
Chemical_old	Water_Tube_Boiler	180,140	180,119	180,110	180,145	180,145	180,120	180,121	180,130	180,129
Fab_Metal_new	AC	77	77	77	77	77	77	77	77	77
Fab_Metal_new	Drying	90,598	90,576	90,567	90,603	90,603	90,577	90,577	90,587	90,586
Fab_Metal_new	Engine	1,324	1,323	1,323	1,324	1,324	1,323	1,323	1,324	1,324
Fab_Metal_new	Fire_Tube_Boiler	491,806	491,687	491,637	491,832	491,833	491,693	491,694	491,749	491,740
Fab_Metal_new	Furnace_Oven_Kiln	301,962	301,889	301,858	301,978	301,979	301,893	301,894	301,927	301,922
Fab_Metal_new	Other	449	449	449	449	449	449	449	449	449
Fab_Metal_new	Space_Heat	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293
Fab_Metal_new	Water_Heat	4,671	4,670	4,669	4,671	4,671	4,670	4,670	4,670	4,670
Fab_Metal_new	Water_Tube_Boiler	159,629	159,590	159,574	159,637	159,638	159,592	159,593	159,611	159,607
Fab_Metal_old	AC	77	77	77	77	77	77	77	77	77
Fab_Metal_old	Drying	90,598	90,576	90,567	90,603	90,603	90,577	90,577	90,587	90,586
Fab_Metal_old	Engine	1,324	1,323	1,323	1,324	1,324	1,323	1,323	1,324	1,324
Fab_Metal_old	Fire_Tube_Boiler	491,806	491,687	491,637	491,832	491,833	491,693	491,694	491,749	491,740
Fab_Metal_old	Furnace_Oven_Kiln	301,962	301,889	301,858	301,978	301,979	301,893	301,894	301,927	301,922
Fab_Metal_old	Other	449	449	449	449	449	449	449	449	449
Fab_Metal_old	Space_Heat	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293	2,293
Fab_Metal_old	Water_Heat	4,671	4,670	4,669	4,671	4,671	4,670	4,670	4,670	4,670
Fab_Metal_old	Water_Tube_Boiler	159,629	159,590	159,574	159,637	159,638	159,592	159,593	159,610	159,607
Food_new	AC	46,272	46,263	46,259	46,274	46,274	46,263	46,263	46,268	46,267
Food_new	Drying	218,044	218,002	217,984	218,053	218,053	218,004	218,004	218,024	218,020
Food_new	Engine	15,365	15,362	15,361	15,365	15,365	15,362	15,362	15,363	15,363
Food_new	Fire_Tube_Boiler	129,355	129,330	129,319	129,360	129,360	129,331	129,331	129,343	129,341
Food_new	Furnace_Oven_Kiln	2,603	2,602	2,602	2,603	2,603	2,602	2,602	2,602	2,602
Food_new	Other	983	983	983	983	983	983	983	983	983
Food_new	Space_Heat	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110	1,110
Food_new	Water_Heat	5,038	5,037	5,037	5,039	5,039	5,037	5,037	5,038	5,038
Food_new	Water_Tube_Boiler	122,603	122,579	122,569	122,608	122,608	122,581	122,581	122,592	122,590
Food_old	AC	46,272	46,263	46,259	46,274	46,274	46,263	46,263	46,268	46,267
Food_old	Drying	218,044	218,002	217,984	218,053	218,053	218,004	218,004	218,024	218,020
Food_old	Engine	15,365	15,362	15,361	15,365	15,365	15,362	15,362	15,363	15,363
Food_old	Fire_Tube_Boiler	129,355	129,330	129,319	129,360	129,360	129,331	129,331	129,343	129,341
Food_old	Furnace_Oven_Kiln	2,603	2,602	2,602	2,603	2,603	2,602	2,602	2,602	2,602
Food_old	Other	983	983	983	983	983	983	983	983	983
Food_old	Space_Heat	1,110	1,110	1,110	1,110	1,111	1,110	1,110	1,110	1,110

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of New Customers**  
**Table CoreInd-14 (Cont.)**

Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
Food_old	Water_Heat	5,038	5,037	5,037	5,039	5,039	5,037	5,037	5,038	5,038
Food_old	Water_Tube_Boiler	122,603	122,579	122,569	122,608	122,608	122,581	122,581	122,592	122,590
Misc_new	AC	28	28	28	28	28	28	28	28	28
Misc_new	Drying	87,518	87,487	87,473	87,525	87,525	87,488	87,489	87,503	87,500
Misc_new	Engine	3,328	3,327	3,326	3,328	3,328	3,327	3,327	3,327	3,327
Misc_new	Fire_Tube_Boiler	322,056	321,941	321,892	322,081	322,082	321,947	321,948	322,001	321,992
Misc_new	Furnace_Oven_Kiln	102,664	102,627	102,612	102,672	102,672	102,629	102,630	102,647	102,644
Misc_new	Other	267	267	267	267	267	267	267	267	267
Misc_new	Space_Heat	2,854	2,853	2,852	2,854	2,854	2,853	2,853	2,853	2,853
Misc_new	Water_Heat	2,050	2,049	2,049	2,050	2,050	2,049	2,049	2,049	2,049
Misc_new	Water_Tube_Boiler	167,590	167,531	167,505	167,604	167,604	167,534	167,534	167,562	167,557
Misc_old	AC	28	28	28	28	28	28	28	28	28
Misc_old	Drying	87,518	87,487	87,473	87,525	87,525	87,488	87,489	87,503	87,500
Misc_old	Engine	3,328	3,327	3,326	3,328	3,328	3,327	3,327	3,327	3,327
Misc_old	Fire_Tube_Boiler	322,056	321,941	321,892	322,081	322,082	321,947	321,948	322,001	321,992
Misc_old	Furnace_Oven_Kiln	102,664	102,627	102,612	102,672	102,672	102,629	102,630	102,647	102,644
Misc_old	Other	267	267	267	267	267	267	267	267	267
Misc_old	Space_Heat	2,854	2,853	2,852	2,854	2,854	2,853	2,853	2,853	2,853
Misc_old	Water_Heat	2,050	2,049	2,049	2,050	2,050	2,049	2,049	2,049	2,049
Misc_old	Water_Tube_Boiler	167,590	167,531	167,505	167,604	167,604	167,534	167,534	167,562	167,557
Petroleum_new	AC	0	0	0	0	0	0	0	0	0
Petroleum_new	Drying	1,581,191	1,580,035	1,579,544	1,581,444	1,581,456	1,580,092	1,580,104	1,580,637	1,580,547
Petroleum_new	Engine	270,008	269,810	269,726	270,051	270,053	269,820	269,822	269,913	269,898
Petroleum_new	Fire_Tube_Boiler	242,725	242,547	242,472	242,764	242,766	242,556	242,558	242,640	242,626
Petroleum_new	Furnace_Oven_Kiln	2,663	2,661	2,660	2,663	2,663	2,661	2,661	2,662	2,662
Petroleum_new	Other	3,343	3,341	3,340	3,344	3,344	3,341	3,341	3,342	3,342
Petroleum_new	Space_Heat	1,255	1,254	1,253	1,255	1,255	1,254	1,254	1,254	1,254
Petroleum_new	Water_Heat	913	913	912	913	913	913	913	913	913
Petroleum_new	Water_Tube_Boiler	709,180	708,662	708,441	709,294	709,299	708,687	708,693	708,931	708,891
Petroleum_old	AC	0	0	0	0	0	0	0	0	0
Petroleum_old	Drying	1,581,191	1,580,035	1,579,544	1,581,444	1,581,456	1,580,092	1,580,104	1,580,637	1,580,547
Petroleum_old	Engine	280,477	280,272	280,185	280,522	280,524	280,282	280,284	280,379	280,363
Petroleum_old	Fire_Tube_Boiler	252,136	251,952	251,874	252,177	252,179	251,961	251,963	252,048	252,034
Petroleum_old	Furnace_Oven_Kiln	2,766	2,764	2,763	2,767	2,767	2,764	2,764	2,765	2,765
Petroleum_old	Other	3,343	3,341	3,340	3,344	3,344	3,341	3,341	3,342	3,342
Petroleum_old	Space_Heat	1,303	1,302	1,302	1,304	1,304	1,302	1,303	1,303	1,303
Petroleum_old	Water_Heat	949	948	948	949	949	948	948	948	948
Petroleum_old	Water_Tube_Boiler	736,678	736,140	735,910	736,796	736,801	736,166	736,172	736,420	736,378
Prim_Metal_new	AC	2,666	2,666	2,666	2,666	2,666	2,666	2,666	2,666	2,666
Prim_Metal_new	Drying	115,361	115,353	115,349	115,363	115,363	115,353	115,353	115,357	115,356
Prim_Metal_new	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_new	Fire_Tube_Boiler	614,144	614,097	614,077	614,154	614,154	614,099	614,100	614,121	614,118
Prim_Metal_new	Furnace_Oven_Kiln	306,810	306,786	306,776	306,815	306,815	306,788	306,788	306,798	306,797
Prim_Metal_new	Other	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147
Prim_Metal_new	Space_Heat	1,925	1,925	1,925	1,925	1,925	1,925	1,925	1,925	1,925
Prim_Metal_new	Water_Heat	4,171	4,170	4,170	4,171	4,171	4,170	4,170	4,170	4,170
Prim_Metal_new	Water_Tube_Boiler	341,685	341,660	341,649	341,691	341,691	341,661	341,661	341,673	341,671
Prim_Metal_old	AC	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769	2,769
Prim_Metal_old	Drying	119,834	119,824	119,821	119,836	119,836	119,825	119,825	119,829	119,829
Prim_Metal_old	Engine	0	0	0	0	0	0	0	0	0
Prim_Metal_old	Fire_Tube_Boiler	637,952	637,904	637,883	637,963	637,963	637,906	637,907	637,929	637,925
Prim_Metal_old	Furnace_Oven_Kiln	318,704	318,680	318,669	318,709	318,709	318,681	318,681	318,692	318,690

**Southern California Gas Company**  
**Core Industrial G-10**  
**Average Gas Consumption Per Unit (therm) of New Customers**  
**Table CoreInd-14 (Cont.)**

Segments	End Use	2032	2033	2034	2035	2036	2037	2038	2039	2040
Prim_Metal_old	Other	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147	1,147
Prim_Metal_old	Space_Heat	2,000	2,000	1,999	2,000	2,000	2,000	2,000	2,000	2,000
Prim_Metal_old	Water_Heat	4,332	4,332	4,332	4,332	4,332	4,332	4,332	4,332	4,332
Prim_Metal_old	Water_Tube_Boiler	354,932	354,905	354,893	354,937	354,938	354,906	354,906	354,919	354,917
Textile_new	AC	0	0	0	0	0	0	0	0	0
Textile_new	Drying	87,976	87,952	87,942	87,981	87,982	87,954	87,954	87,965	87,963
Textile_new	Engine	0	0	0	0	0	0	0	0	0
Textile_new	Fire_Tube_Boiler	88,595	88,571	88,560	88,600	88,600	88,572	88,572	88,583	88,581
Textile_new	Furnace_Oven_Kiln	26,111	26,104	26,101	26,113	26,113	26,104	26,105	26,108	26,107
Textile_new	Other	0	0	0	0	0	0	0	0	0
Textile_new	Space_Heat	444	444	444	444	444	444	444	444	444
Textile_new	Water_Heat	3,993	3,992	3,991	3,993	3,993	3,992	3,992	3,992	3,992
Textile_new	Water_Tube_Boiler	76,848	76,827	76,818	76,852	76,853	76,828	76,828	76,838	76,836
Textile_old	AC	0	0	0	0	0	0	0	0	0
Textile_old	Drying	91,380	91,355	91,345	91,386	91,386	91,357	91,357	91,368	91,366
Textile_old	Engine	0	0	0	0	0	0	0	0	0
Textile_old	Fire_Tube_Boiler	92,023	91,998	91,987	92,028	92,028	91,999	91,999	92,011	92,009
Textile_old	Furnace_Oven_Kiln	27,121	27,114	27,111	27,123	27,123	27,114	27,115	27,118	27,117
Textile_old	Other	0	0	0	0	0	0	0	0	0
Textile_old	Space_Heat	461	461	461	461	461	461	461	461	461
Textile_old	Water_Heat	4,148	4,146	4,146	4,148	4,148	4,146	4,146	4,147	4,147
Textile_old	Water_Tube_Boiler	79,821	79,800	79,790	79,826	79,826	79,801	79,801	79,811	79,809
Transport_new	AC	0	0	0	0	0	0	0	0	0
Transport_new	Drying	65,776	65,737	65,721	65,784	65,785	65,739	65,740	65,758	65,755
Transport_new	Engine	45,861	45,834	45,822	45,867	45,867	45,835	45,835	45,848	45,846
Transport_new	Fire_Tube_Boiler	324,803	324,612	324,531	324,844	324,846	324,622	324,624	324,711	324,697
Transport_new	Furnace_Oven_Kiln	122,940	122,868	122,838	122,956	122,957	122,872	122,873	122,906	122,900
Transport_new	Other	338	338	338	338	338	338	338	338	338
Transport_new	Space_Heat	11,455	11,448	11,445	11,456	11,456	11,449	11,449	11,452	11,451
Transport_new	Water_Heat	4,549	4,547	4,546	4,550	4,550	4,547	4,547	4,548	4,548
Transport_new	Water_Tube_Boiler	309,824	309,643	309,565	309,864	309,866	309,652	309,654	309,737	309,723
Transport_old	AC	0	0	0	0	0	0	0	0	0
Transport_old	Drying	65,776	65,737	65,721	65,784	65,785	65,739	65,740	65,758	65,755
Transport_old	Engine	45,861	45,834	45,822	45,866	45,867	45,835	45,835	45,848	45,846
Transport_old	Fire_Tube_Boiler	324,802	324,612	324,531	324,844	324,846	324,622	324,624	324,711	324,696
Transport_old	Furnace_Oven_Kiln	122,940	122,868	122,838	122,956	122,957	122,872	122,873	122,906	122,900
Transport_old	Other	338	338	338	338	338	338	338	338	338
Transport_old	Space_Heat	11,455	11,448	11,445	11,456	11,456	11,449	11,449	11,452	11,451
Transport_old	Water_Heat	4,549	4,547	4,546	4,550	4,550	4,547	4,547	4,548	4,548
Transport_old	Water_Tube_Boiler	309,824	309,643	309,566	309,864	309,866	309,652	309,654	309,737	309,723

**Southern California Gas Company  
Core Industrial G-10  
Real Gas Rate Forecasts (\$/therm)  
Table CoreInd-15**

Year		Real Rate
2023	\$	1.43
2024	\$	1.52
2025	\$	1.55
2026	\$	1.79
2027	\$	1.82
2028	\$	1.90
2029	\$	1.92
2030	\$	1.96
2031	\$	1.92
2032	\$	1.92
2033	\$	1.93
2034	\$	1.93
2035	\$	1.91
2036	\$	1.91
2037	\$	1.93
2038	\$	1.93
2039	\$	1.92
2040	\$	1.92

## **NONCORE COMMERCIAL**

# Noncore Commercial Gas Demand

## Introduction

The purpose of these workpapers is to document the methodology used to forecast demand for SoCalGas' noncore commercial market. Noncore commercial customers are determined by the NAICS (North American Industrial Classification System) code on the billing record. The final demand forecast for the noncore commercial market is estimated by the output from a base econometric forecast and some "out-of-model" (post-model) adjustments, including CPUC-authorized energy efficiency goal, additional achievable Fuel Substitution (AAFS) and core to noncore migration.

## Data Sources

### A. Historical Billing Data

Monthly historical gas consumption for the noncore commercial market was obtained from SoCalGas' billing records for 2010-2023.

### B. Natural Gas Price

The natural gas prices used to forecast demand were based on the price of gas at the burner-tip in each market segment, which is composed of the gas commodity cost, transportation rate (G-30 tariff rate), and Public Purpose Program surcharge. The cost of gas delivered to the SoCalGas "city gate" was used for the gas commodity cost. Since the G-30 tariff rate is priced according to tier, calculations were made to arrive at the overall average transportation rates from historical usage in 2023. The average rate is calculated from the weighted average rate at each tier.

### C. HDD data

For the base econometric forecast model, SoCalGas recorded monthly system Hdd data are used for historical data, and average year weather design Hdd data are used for forecasting period.

### D. Employment

Employment, as a measure of economic activity, is used to drive the noncore commercial demand forecast models. The employment history and forecast through 2040 is based on S&P Global's (formerly Global Insight) November 2021 Regional forecast. S&P Global prepares regular regional employment forecast for California and the 12 counties in SoCalGas' service area. The monthly employment used in the model was generated by summing the employment data over the commercial and industrial NAICS codes. Seasonality was added to S&P Global's seasonally adjusted history and forecast using seasonality factors derived from California Employment

and Development Department (CA EDD) monthly historical not seasonally adjusted (NSA) data.

### **E. Post-Model Adjustment**

Once the base econometric forecast model generated the base forecast, post-model adjustments were made to account for effects the model is not designed to simulate. Energy savings goals that were authorized by the CPUC in decision D.04-09-060, additional achievable Fuel Substitution (AAFS) and migration of customers between noncore and core service has been observed to the extent that the net-migration is from core to noncore. An outlook for this net load migration, split between commercial and industrial sectors was developed and results in a *subtraction* from the respective core sector and a corresponding *addition* to the respective noncore sector.

### **Base Forecast Model**

Noncore Commercial consumption are forecasted using a base econometric employing monthly historic data from 2010 through 2023. To model the dependent variable (consumption as Mdth), the independent variables are HDD, Employment, Gas burner-tip price, monthly dummy variables, and autoregressive terms to correct for any autocorrelation that may be present in the model errors.



Below are SAS base econometric forecast model results.

The AUTOREG Procedure					
Maximum Likelihood Estimates					
SSE	854412.555	DFE			152
MSE	5621	Root MSE			74.97423
SBC	1992.86628	AIC			1942.88285
MAE	44.5882068	AICC			1946.4855
MAPE	2.96588514	HQC			1963.16856
Log Likelihood	-955.44143	Transformed Regression R-Square			0.8401
Durbin-Watson	1.9199	Total R-Square			0.9036
		Observations			168

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr >  t
Intercept	1	1123	181.0289	6.20	<.0001
HDD	1	1.3767	0.1632	8.44	<.0001
Employment	1	0.0427	0.0214	2.00	0.0475
Price	1	-1.9989	2.4275	-0.82	0.4115
Month_01	1	36.2253	25.6065	1.41	0.1592
Month_02	1	-103.7461	30.7700	-3.37	0.0009
Month_03	1	1.8176	35.9563	0.05	0.9598
Month_04	1	-100.1109	44.3738	-2.26	0.0255
Month_05	1	-123.6680	48.7705	-2.54	0.0122
Month_06	1	-222.5026	53.7922	-4.14	<.0001
Month_07	1	-242.9666	54.8270	-4.43	<.0001
Month_08	1	-194.9169	54.3556	-3.59	0.0005
Month_09	1	156.0578	52.9974	2.94	0.0037
Month_10	1	8.6473	48.9983	0.18	0.8602
Month_11	1	-105.3844	32.5459	-3.24	0.0015
AR1	1	-0.5580	0.0674	-8.28	<.0001

The table below shows the base noncore Commercial gas demand forecast from econometric model before post-model adjustment.

### Base Forecast of Noncore Commercial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-24	260.1	13.978	1	0	0	0	0	0	0	0	0	0	0	1,832.0
Feb-24	222.4	12.991	0	1	0	0	0	0	0	0	0	0	0	1,656.1
Mar-24	168.4	10.332	0	0	1	0	0	0	0	0	0	0	0	1,698.8
Apr-24	96.3	9.332	0	0	0	1	0	0	0	0	0	0	0	1,507.3
May-24	45.2	9.072	0	0	0	0	1	0	0	0	0	0	0	1,420.2
Jun-24	9.3	9.552	0	0	0	0	0	1	0	0	0	0	0	1,277.8
Jul-24	1.9	10.738	0	0	0	0	0	0	1	0	0	0	0	1,237.0
Aug-24	1.5	10.776	0	0	0	0	0	0	0	1	0	0	0	1,288.2
Sep-24	4.2	10.672	0	0	0	0	0	0	0	0	1	0	0	1,646.8
Oct-24	27.2	9.662	0	0	0	0	0	0	0	0	0	1	0	1,534.4
Nov-24	122.7	10.622	0	0	0	0	0	0	0	0	0	0	1	1,553.5
Dec-24	275.8	12.479	0	0	0	0	0	0	0	0	0	0	0	1,864.7
Jan-25	258.6	11.716	1	0	0	0	0	0	0	0	0	0	0	1,861.8
Feb-25	221.2	10.803	0	1	0	0	0	0	0	0	0	0	0	1,675.5
Mar-25	167.5	10.597	0	0	1	0	0	0	0	0	0	0	0	1,707.8
Apr-25	95.7	10.345	0	0	0	1	0	0	0	0	0	0	0	1,512.3
May-25	45.0	9.740	0	0	0	0	1	0	0	0	0	0	0	1,424.3
Jun-25	9.2	9.701	0	0	0	0	0	1	0	0	0	0	0	1,282.0
Jul-25	1.9	10.445	0	0	0	0	0	0	1	0	0	0	0	1,241.7
Aug-25	1.5	10.496	0	0	0	0	0	0	0	1	0	0	0	1,292.6
Sep-25	4.1	10.966	0	0	0	0	0	0	0	0	1	0	0	1,649.7
Oct-25	27.1	10.918	0	0	0	0	0	0	0	0	0	1	0	1,535.5
Nov-25	122.0	11.268	0	0	0	0	0	0	0	0	0	0	1	1,555.0
Dec-25	274.2	12.251	0	0	0	0	0	0	0	0	0	0	0	1,866.7
Jan-26	257.2	14.355	1	0	0	0	0	0	0	0	0	0	0	1,857.7
Feb-26	219.9	15.370	0	1	0	0	0	0	0	0	0	0	0	1,667.9
Mar-26	166.5	14.317	0	0	1	0	0	0	0	0	0	0	0	1,702.3
Apr-26	95.2	12.915	0	0	0	1	0	0	0	0	0	0	0	1,509.8
May-26	44.7	12.641	0	0	0	0	1	0	0	0	0	0	0	1,421.5
Jun-26	9.2	11.991	0	0	0	0	0	1	0	0	0	0	0	1,280.7
Jul-26	1.9	12.308	0	0	0	0	0	0	1	0	0	0	0	1,241.2
Aug-26	1.5	12.207	0	0	0	0	0	0	0	1	0	0	0	1,292.4
Sep-26	4.1	12.007	0	0	0	0	0	0	0	0	1	0	0	1,650.8
Oct-26	26.9	12.071	0	0	0	0	0	0	0	0	0	1	0	1,535.9
Nov-26	121.3	12.574	0	0	0	0	0	0	0	0	0	0	1	1,554.3
Dec-26	272.6	13.141	0	0	0	0	0	0	0	0	0	0	0	1,865.6

### Base Forecast of Noncore Commercial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-27	255.7	14.289	1	0	0	0	0	0	0	0	0	0	0	1,858.9
Feb-27	218.6	15.259	0	1	0	0	0	0	0	0	0	0	0	1,669.5
Mar-27	165.6	14.124	0	0	1	0	0	0	0	0	0	0	0	1,704.4
Apr-27	94.6	12.747	0	0	0	1	0	0	0	0	0	0	0	1,512.2
May-27	44.5	12.264	0	0	0	0	1	0	0	0	0	0	0	1,424.6
Jun-27	9.1	11.878	0	0	0	0	0	1	0	0	0	0	0	1,283.5
Jul-27	1.9	12.141	0	0	0	0	0	0	1	0	0	0	0	1,243.7
Aug-27	1.5	12.157	0	0	0	0	0	0	0	1	0	0	0	1,294.6
Sep-27	4.1	11.962	0	0	0	0	0	0	0	0	1	0	0	1,653.0
Oct-27	26.7	11.906	0	0	0	0	0	0	0	0	0	1	0	1,538.0
Nov-27	120.6	12.453	0	0	0	0	0	0	0	0	0	0	1	1,555.6
Dec-27	271.1	13.469	0	0	0	0	0	0	0	0	0	0	0	1,864.8
Jan-28	254.2	15.287	1	0	0	0	0	0	0	0	0	0	0	1,857.2
Feb-28	217.4	14.487	0	1	0	0	0	0	0	0	0	0	0	1,671.6
Mar-28	164.6	13.591	0	0	1	0	0	0	0	0	0	0	0	1,706.5
Apr-28	94.1	12.970	0	0	0	1	0	0	0	0	0	0	0	1,513.3
May-28	44.2	12.943	0	0	0	0	1	0	0	0	0	0	0	1,425.2
Jun-28	9.1	13.037	0	0	0	0	0	1	0	0	0	0	0	1,283.4
Jul-28	1.9	13.292	0	0	0	0	0	0	1	0	0	0	0	1,243.6
Aug-28	1.5	13.367	0	0	0	0	0	0	0	1	0	0	0	1,294.4
Sep-28	4.1	13.183	0	0	0	0	0	0	0	0	1	0	0	1,652.8
Oct-28	26.6	13.124	0	0	0	0	0	0	0	0	0	1	0	1,537.5
Nov-28	119.9	13.539	0	0	0	0	0	0	0	0	0	0	1	1,554.6
Dec-28	269.5	14.187	0	0	0	0	0	0	0	0	0	0	0	1,863.3
Jan-29	252.7	14.715	1	0	0	0	0	0	0	0	0	0	0	1,858.4
Feb-29	216.1	14.286	0	1	0	0	0	0	0	0	0	0	0	1,672.4
Mar-29	163.6	13.931	0	0	1	0	0	0	0	0	0	0	0	1,706.6
Apr-29	93.5	13.280	0	0	0	1	0	0	0	0	0	0	0	1,514.0
May-29	44.0	13.247	0	0	0	0	1	0	0	0	0	0	0	1,426.3
Jun-29	9.0	13.321	0	0	0	0	0	1	0	0	0	0	0	1,284.8
Jul-29	1.9	13.472	0	0	0	0	0	0	1	0	0	0	0	1,245.3
Aug-29	1.4	13.594	0	0	0	0	0	0	0	1	0	0	0	1,296.0
Sep-29	4.1	13.394	0	0	0	0	0	0	0	0	1	0	0	1,654.4
Oct-29	26.4	13.336	0	0	0	0	0	0	0	0	0	1	0	1,539.1
Nov-29	119.2	13.829	0	0	0	0	0	0	0	0	0	0	1	1,555.3
Dec-29	267.9	14.389	0	0	0	0	0	0	0	0	0	0	0	1,863.0

### Base Forecast of Noncore Commercial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-30	251.3	15.436	1	0	0	0	0	0	0	0	0	0	0	1,857.0
Feb-30	214.9	15.091	0	1	0	0	0	0	0	0	0	0	0	1,671.1
Mar-30	162.7	14.835	0	0	1	0	0	0	0	0	0	0	0	1,705.5
Apr-30	93.0	13.791	0	0	0	1	0	0	0	0	0	0	0	1,514.3
May-30	43.7	13.344	0	0	0	0	1	0	0	0	0	0	0	1,427.8
Jun-30	9.0	13.603	0	0	0	0	0	1	0	0	0	0	0	1,286.2
Jul-30	1.8	13.722	0	0	0	0	0	0	1	0	0	0	0	1,247.0
Aug-30	1.4	13.816	0	0	0	0	0	0	0	1	0	0	0	1,297.8
Sep-30	4.0	13.580	0	0	0	0	0	0	0	0	1	0	0	1,656.2
Oct-30	26.3	13.536	0	0	0	0	0	0	0	0	0	1	0	1,540.4
Nov-30	118.5	14.076	0	0	0	0	0	0	0	0	0	0	1	1,555.6
Dec-30	266.4	14.687	0	0	0	0	0	0	0	0	0	0	0	1,862.0
Jan-31	249.8	14.700	1	0	0	0	0	0	0	0	0	0	0	1,857.9
Feb-31	213.6	14.182	0	1	0	0	0	0	0	0	0	0	0	1,672.6
Mar-31	161.7	13.843	0	0	1	0	0	0	0	0	0	0	0	1,707.5
Apr-31	92.5	13.277	0	0	0	1	0	0	0	0	0	0	0	1,515.9
May-31	43.4	13.233	0	0	0	0	1	0	0	0	0	0	0	1,429.0
Jun-31	8.9	13.446	0	0	0	0	0	1	0	0	0	0	0	1,287.9
Jul-31	1.8	13.594	0	0	0	0	0	0	1	0	0	0	0	1,248.6
Aug-31	1.4	13.684	0	0	0	0	0	0	0	1	0	0	0	1,299.4
Sep-31	4.0	13.418	0	0	0	0	0	0	0	0	1	0	0	1,657.8
Oct-31	26.1	13.355	0	0	0	0	0	0	0	0	0	1	0	1,542.3
Nov-31	117.8	13.705	0	0	0	0	0	0	0	0	0	0	1	1,557.3
Dec-31	264.8	14.242	0	0	0	0	0	0	0	0	0	0	0	1,862.6
Jan-32	248.3	14.353	1	0	0	0	0	0	0	0	0	0	0	1,858.0
Feb-32	212.3	14.048	0	1	0	0	0	0	0	0	0	0	0	1,672.6
Mar-32	160.8	13.738	0	0	1	0	0	0	0	0	0	0	0	1,707.9
Apr-32	91.9	13.264	0	0	0	1	0	0	0	0	0	0	0	1,516.8
May-32	43.2	13.155	0	0	0	0	1	0	0	0	0	0	0	1,430.5
Jun-32	8.9	13.312	0	0	0	0	0	1	0	0	0	0	0	1,289.7
Jul-32	1.8	13.430	0	0	0	0	0	0	1	0	0	0	0	1,250.6
Aug-32	1.4	13.555	0	0	0	0	0	0	0	1	0	0	0	1,301.3
Sep-32	4.0	13.290	0	0	0	0	0	0	0	0	1	0	0	1,659.7
Oct-32	26.0	13.274	0	0	0	0	0	0	0	0	0	1	0	1,544.2
Nov-32	117.1	13.783	0	0	0	0	0	0	0	0	0	0	1	1,558.2
Dec-32	263.3	14.259	0	0	0	0	0	0	0	0	0	0	0	1,862.4

### Base Forecast of Noncore Commercial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-33	246.8	14.485	1	0	0	0	0	0	0	0	0	0	0	1,857.3
Feb-33	211.1	14.284	0	1	0	0	0	0	0	0	0	0	0	1,672.1
Mar-33	159.8	13.937	0	0	1	0	0	0	0	0	0	0	0	1,707.8
Apr-33	91.4	13.334	0	0	0	1	0	0	0	0	0	0	0	1,517.7
May-33	42.9	13.229	0	0	0	0	1	0	0	0	0	0	0	1,431.8
Jun-33	8.8	13.394	0	0	0	0	0	1	0	0	0	0	0	1,291.3
Jul-33	1.8	13.468	0	0	0	0	0	0	1	0	0	0	0	1,252.5
Aug-33	1.4	13.525	0	0	0	0	0	0	0	1	0	0	0	1,303.4
Sep-33	4.0	13.371	0	0	0	0	0	0	0	0	1	0	0	1,661.6
Oct-33	25.8	13.345	0	0	0	0	0	0	0	0	0	1	0	1,545.8
Nov-33	116.4	13.843	0	0	0	0	0	0	0	0	0	0	1	1,559.1
Dec-33	261.7	14.160	0	0	0	0	0	0	0	0	0	0	0	1,862.4
Jan-34	245.4	14.272	1	0	0	0	0	0	0	0	0	0	0	1,857.6
Feb-34	209.8	14.144	0	1	0	0	0	0	0	0	0	0	0	1,672.5
Mar-34	158.9	13.856	0	0	1	0	0	0	0	0	0	0	0	1,708.6
Apr-34	90.8	13.378	0	0	0	1	0	0	0	0	0	0	0	1,518.7
May-34	42.7	13.280	0	0	0	0	1	0	0	0	0	0	0	1,433.2
Jun-34	8.8	13.437	0	0	0	0	0	1	0	0	0	0	0	1,293.1
Jul-34	1.8	13.512	0	0	0	0	0	0	1	0	0	0	0	1,254.2
Aug-34	1.4	13.608	0	0	0	0	0	0	0	1	0	0	0	1,305.0
Sep-34	3.9	13.480	0	0	0	0	0	0	0	0	1	0	0	1,663.1
Oct-34	25.7	13.473	0	0	0	0	0	0	0	0	0	1	0	1,547.1
Nov-34	115.7	13.837	0	0	0	0	0	0	0	0	0	0	1	1,559.9
Dec-34	260.1	14.188	0	0	0	0	0	0	0	0	0	0	0	1,861.9
Jan-35	243.9	14.277	1	0	0	0	0	0	0	0	0	0	0	1,857.3
Feb-35	208.6	14.083	0	1	0	0	0	0	0	0	0	0	0	1,672.6
Mar-35	157.9	13.708	0	0	1	0	0	0	0	0	0	0	0	1,709.3
Apr-35	90.3	13.125	0	0	0	1	0	0	0	0	0	0	0	1,520.3
May-35	42.4	12.987	0	0	0	0	1	0	0	0	0	0	0	1,435.3
Jun-35	8.7	13.103	0	0	0	0	0	1	0	0	0	0	0	1,295.6
Jul-35	1.8	13.184	0	0	0	0	0	0	1	0	0	0	0	1,256.6
Aug-35	1.4	13.317	0	0	0	0	0	0	0	1	0	0	0	1,307.3
Sep-35	3.9	13.169	0	0	0	0	0	0	0	0	1	0	0	1,665.5
Oct-35	25.5	13.137	0	0	0	0	0	0	0	0	0	1	0	1,549.2
Nov-35	115.0	13.658	0	0	0	0	0	0	0	0	0	0	1	1,560.9
Dec-35	258.6	13.882	0	0	0	0	0	0	0	0	0	0	0	1,862.0

### Base Forecast of Noncore Commercial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-36	242.4	13.928	1	0	0	0	0	0	0	0	0	0	0	1,857.4
Feb-36	207.3	13.767	0	1	0	0	0	0	0	0	0	0	0	1,673.0
Mar-36	157.0	13.521	0	0	1	0	0	0	0	0	0	0	0	1,709.9
Apr-36	89.7	13.104	0	0	0	1	0	0	0	0	0	0	0	1,521.1
May-36	42.2	13.007	0	0	0	0	1	0	0	0	0	0	0	1,436.5
Jun-36	8.7	13.059	0	0	0	0	0	1	0	0	0	0	0	1,297.2
Jul-36	1.8	13.195	0	0	0	0	0	0	1	0	0	0	0	1,258.3
Aug-36	1.4	13.267	0	0	0	0	0	0	0	1	0	0	0	1,309.1
Sep-36	3.9	13.277	0	0	0	0	0	0	0	0	1	0	0	1,667.0
Oct-36	25.4	13.262	0	0	0	0	0	0	0	0	0	1	0	1,550.8
Nov-36	114.3	13.695	0	0	0	0	0	0	0	0	0	0	1	1,562.0
Dec-36	257.0	13.963	0	0	0	0	0	0	0	0	0	0	0	1,861.8
Jan-37	240.9	14.000	1	0	0	0	0	0	0	0	0	0	0	1,857.4
Feb-37	206.0	13.812	0	1	0	0	0	0	0	0	0	0	0	1,673.3
Mar-37	156.0	13.619	0	0	1	0	0	0	0	0	0	0	0	1,710.5
Apr-37	89.2	13.276	0	0	0	1	0	0	0	0	0	0	0	1,522.0
May-37	41.9	13.069	0	0	0	0	1	0	0	0	0	0	0	1,437.9
Jun-37	8.6	13.136	0	0	0	0	0	1	0	0	0	0	0	1,298.9
Jul-37	1.8	13.259	0	0	0	0	0	0	1	0	0	0	0	1,259.8
Aug-37	1.4	13.354	0	0	0	0	0	0	0	1	0	0	0	1,310.6
Sep-37	3.9	13.369	0	0	0	0	0	0	0	0	1	0	0	1,668.4
Oct-37	25.2	13.392	0	0	0	0	0	0	0	0	0	1	0	1,551.6
Nov-37	113.6	13.798	0	0	0	0	0	0	0	0	0	0	1	1,562.0
Dec-37	255.4	14.080	0	0	0	0	0	0	0	0	0	0	0	1,860.6

**Noncore Commercial Annual Post-model Adjustment (2023-2040)**

Year	Base Econometric Model Output (MDth)	Vernon Migration	EE Program (MDth)	AAFS	Migration: core --> noncore	Final Average Year Forecast (MDth)	Adjustment %
2023	19,168.1	0.0	0.0	0.0	0.0	19,168.1	0.00%
2024	18,516.9	0.0	0.0	6.7	210.0	18,720.2	1.10%
2025	18,604.8	0.0	0.0	14.0	210.0	18,800.8	1.05%
2026	18,580.2	0.0	0.0	20.9	210.0	18,769.2	1.02%
2027	18,603.0	0.0	0.0	28.3	210.0	18,784.7	0.98%
2028	18,603.6	0.0	0.0	36.0	210.0	18,777.6	0.94%
2029	18,615.7	0.0	0.0	44.1	210.0	18,781.5	0.89%
2030	18,620.8	0.0	0.0	46.9	210.0	18,783.8	0.88%
2031	18,638.9	0.0	0.0	47.9	210.0	18,801.1	0.87%
2032	18,652.0	0.0	0.0	48.8	210.0	18,813.2	0.86%
2033	18,662.9	0.0	0.0	49.8	210.0	18,823.1	0.86%
2034	18,674.9	0.0	0.0	50.7	210.0	18,834.2	0.85%
2035	18,691.6	0.0	0.0	51.5	210.0	18,850.1	0.85%
2036	18,704.2	0.0	0.0	52.0	210.0	18,862.1	0.84%
2037	18,713.0	0.0	0.0	52.3	210.0	18,870.7	0.84%
2038	18,719.4	0.0	0.0	52.4	210.0	18,877.0	0.84%
2039	18,728.7	0.0	0.0	52.4	210.0	18,886.3	0.84%
2040	18,740.9	0.0	0.0	52.3	210.0	18,898.6	0.84%

**Noncore Commercial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-24	1,832.0	1.10%	1,852.1
Feb-24	1,656.1	1.10%	1,674.3
Mar-24	1,698.8	1.10%	1,717.5
Apr-24	1,507.3	1.10%	1,523.9
May-24	1,420.2	1.10%	1,435.8
Jun-24	1,277.8	1.10%	1,291.8
Jul-24	1,237.0	1.10%	1,250.6
Aug-24	1,288.2	1.10%	1,302.4
Sep-24	1,646.8	1.10%	1,664.8
Oct-24	1,534.4	1.10%	1,551.3
Nov-24	1,553.5	1.10%	1,570.6
Dec-24	1,864.7	1.10%	1,885.2
Jan-25	1,861.8	1.05%	1,881.4
Feb-25	1,675.5	1.05%	1,693.2
Mar-25	1,707.8	1.05%	1,725.8
Apr-25	1,512.3	1.05%	1,528.3
May-25	1,424.3	1.05%	1,439.3
Jun-25	1,282.0	1.05%	1,295.5
Jul-25	1,241.7	1.05%	1,254.8
Aug-25	1,292.6	1.05%	1,306.2
Sep-25	1,649.7	1.05%	1,667.1
Oct-25	1,535.5	1.05%	1,551.6
Nov-25	1,555.0	1.05%	1,571.4
Dec-25	1,866.7	1.05%	1,886.4
Jan-26	1,857.7	1.02%	1,876.6
Feb-26	1,667.9	1.02%	1,684.9
Mar-26	1,702.3	1.02%	1,719.6
Apr-26	1,509.8	1.02%	1,525.2
May-26	1,421.5	1.02%	1,436.0
Jun-26	1,280.7	1.02%	1,293.8
Jul-26	1,241.2	1.02%	1,253.8
Aug-26	1,292.4	1.02%	1,305.5
Sep-26	1,650.8	1.02%	1,667.6
Oct-26	1,535.9	1.02%	1,551.5
Nov-26	1,554.3	1.02%	1,570.1
Dec-26	1,865.6	1.02%	1,884.6
Jan-27	1,858.9	0.98%	1,877.1
Feb-27	1,669.5	0.98%	1,685.8
Mar-27	1,704.4	0.98%	1,721.1
Apr-27	1,512.2	0.98%	1,526.9
May-27	1,424.6	0.98%	1,438.5
Jun-27	1,283.5	0.98%	1,296.0
Jul-27	1,243.7	0.98%	1,255.9
Aug-27	1,294.6	0.98%	1,307.3
Sep-27	1,653.0	0.98%	1,669.1
Oct-27	1,538.0	0.98%	1,553.1
Nov-27	1,555.6	0.98%	1,570.8
Dec-27	1,864.8	0.98%	1,883.0



**Noncore Commercial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-28	1,857.2	0.94%	1,874.6
Feb-28	1,671.6	0.94%	1,687.3
Mar-28	1,706.5	0.94%	1,722.4
Apr-28	1,513.3	0.94%	1,527.5
May-28	1,425.2	0.94%	1,438.5
Jun-28	1,283.4	0.94%	1,295.4
Jul-28	1,243.6	0.94%	1,255.3
Aug-28	1,294.4	0.94%	1,306.5
Sep-28	1,652.8	0.94%	1,668.2
Oct-28	1,537.5	0.94%	1,551.9
Nov-28	1,554.6	0.94%	1,569.2
Dec-28	1,863.3	0.94%	1,880.8
Jan-29	1,858.4	0.89%	1,875.0
Feb-29	1,672.4	0.89%	1,687.3
Mar-29	1,706.6	0.89%	1,721.8
Apr-29	1,514.0	0.89%	1,527.5
May-29	1,426.3	0.89%	1,439.0
Jun-29	1,284.8	0.89%	1,296.3
Jul-29	1,245.3	0.89%	1,256.4
Aug-29	1,296.0	0.89%	1,307.6
Sep-29	1,654.4	0.89%	1,669.1
Oct-29	1,539.1	0.89%	1,552.8
Nov-29	1,555.3	0.89%	1,569.1
Dec-29	1,863.0	0.89%	1,879.6
Jan-30	1,857.0	0.88%	1,873.3
Feb-30	1,671.1	0.88%	1,685.8
Mar-30	1,705.5	0.88%	1,720.4
Apr-30	1,514.3	0.88%	1,527.5
May-30	1,427.8	0.88%	1,440.3
Jun-30	1,286.2	0.88%	1,297.5
Jul-30	1,247.0	0.88%	1,257.9
Aug-30	1,297.8	0.88%	1,309.1
Sep-30	1,656.2	0.88%	1,670.7
Oct-30	1,540.4	0.88%	1,553.8
Nov-30	1,555.6	0.88%	1,569.3
Dec-30	1,862.0	0.88%	1,878.3
Jan-31	1,857.9	0.87%	1,874.1
Feb-31	1,672.6	0.87%	1,687.2
Mar-31	1,707.5	0.87%	1,722.4
Apr-31	1,515.9	0.87%	1,529.1
May-31	1,429.0	0.87%	1,441.5
Jun-31	1,287.9	0.87%	1,299.1
Jul-31	1,248.6	0.87%	1,259.4
Aug-31	1,299.4	0.87%	1,310.7
Sep-31	1,657.8	0.87%	1,672.2
Oct-31	1,542.3	0.87%	1,555.7
Nov-31	1,557.3	0.87%	1,570.9
Dec-31	1,862.6	0.87%	1,878.8

**Noncore Commercial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-32	1,858.0	0.86%	1,874.1
Feb-32	1,672.6	0.86%	1,687.1
Mar-32	1,707.9	0.86%	1,722.7
Apr-32	1,516.8	0.86%	1,529.9
May-32	1,430.5	0.86%	1,442.8
Jun-32	1,289.7	0.86%	1,300.9
Jul-32	1,250.6	0.86%	1,261.4
Aug-32	1,301.3	0.86%	1,312.5
Sep-32	1,659.7	0.86%	1,674.1
Oct-32	1,544.2	0.86%	1,557.5
Nov-32	1,558.2	0.86%	1,571.6
Dec-32	1,862.4	0.86%	1,878.5
Jan-33	1,857.3	0.86%	1,873.3
Feb-33	1,672.1	0.86%	1,686.4
Mar-33	1,707.8	0.86%	1,722.5
Apr-33	1,517.7	0.86%	1,530.7
May-33	1,431.8	0.86%	1,444.1
Jun-33	1,291.3	0.86%	1,302.4
Jul-33	1,252.5	0.86%	1,263.2
Aug-33	1,303.4	0.86%	1,314.6
Sep-33	1,661.6	0.86%	1,675.9
Oct-33	1,545.8	0.86%	1,559.1
Nov-33	1,559.1	0.86%	1,572.5
Dec-33	1,862.4	0.86%	1,878.4
Jan-34	1,857.6	0.85%	1,873.5
Feb-34	1,672.5	0.85%	1,686.8
Mar-34	1,708.6	0.85%	1,723.1
Apr-34	1,518.7	0.85%	1,531.7
May-34	1,433.2	0.85%	1,445.4
Jun-34	1,293.1	0.85%	1,304.2
Jul-34	1,254.2	0.85%	1,264.9
Aug-34	1,305.0	0.85%	1,316.1
Sep-34	1,663.1	0.85%	1,677.3
Oct-34	1,547.1	0.85%	1,560.3
Nov-34	1,559.9	0.85%	1,573.2
Dec-34	1,861.9	0.85%	1,877.8
Jan-35	1,857.3	0.85%	1,873.0
Feb-35	1,672.6	0.85%	1,686.8
Mar-35	1,709.3	0.85%	1,723.8
Apr-35	1,520.3	0.85%	1,533.2
May-35	1,435.3	0.85%	1,447.4
Jun-35	1,295.6	0.85%	1,306.6
Jul-35	1,256.6	0.85%	1,267.2
Aug-35	1,307.3	0.85%	1,318.4
Sep-35	1,665.5	0.85%	1,679.6
Oct-35	1,549.2	0.85%	1,562.3
Nov-35	1,560.9	0.85%	1,574.1
Dec-35	1,862.0	0.85%	1,877.8

**Noncore Commercial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-36	1,857.4	0.84%	1,873.1
Feb-36	1,673.0	0.84%	1,687.2
Mar-36	1,709.9	0.84%	1,724.3
Apr-36	1,521.1	0.84%	1,534.0
May-36	1,436.5	0.84%	1,448.6
Jun-36	1,297.2	0.84%	1,308.2
Jul-36	1,258.3	0.84%	1,268.9
Aug-36	1,309.1	0.84%	1,320.2
Sep-36	1,667.0	0.84%	1,681.1
Oct-36	1,550.8	0.84%	1,563.9
Nov-36	1,562.0	0.84%	1,575.1
Dec-36	1,861.8	0.84%	1,877.5
Jan-37	1,857.4	0.84%	1,873.0
Feb-37	1,673.3	0.84%	1,687.4
Mar-37	1,710.5	0.84%	1,724.9
Apr-37	1,522.0	0.84%	1,534.8
May-37	1,437.9	0.84%	1,450.0
Jun-37	1,298.9	0.84%	1,309.9
Jul-37	1,259.8	0.84%	1,270.4
Aug-37	1,310.6	0.84%	1,321.6
Sep-37	1,668.4	0.84%	1,682.5
Oct-37	1,551.6	0.84%	1,564.7
Nov-37	1,562.0	0.84%	1,575.2
Dec-37	1,860.6	0.84%	1,876.3
Jan-38	1,856.5	0.84%	1,872.1
Feb-38	1,672.8	0.84%	1,686.8
Mar-38	1,710.4	0.84%	1,724.8
Apr-38	1,522.7	0.84%	1,535.6
May-38	1,438.8	0.84%	1,450.9
Jun-38	1,300.1	0.84%	1,311.1
Jul-38	1,261.1	0.84%	1,271.7
Aug-38	1,311.9	0.84%	1,322.9
Sep-38	1,669.8	0.84%	1,683.9
Oct-38	1,552.8	0.84%	1,565.9
Nov-38	1,562.5	0.84%	1,575.6
Dec-38	1,860.0	0.84%	1,875.6
Jan-39	1,855.8	0.84%	1,871.4
Feb-39	1,672.4	0.84%	1,686.5
Mar-39	1,710.6	0.84%	1,725.0
Apr-39	1,523.5	0.84%	1,536.3
May-39	1,440.0	0.84%	1,452.1
Jun-39	1,301.7	0.84%	1,312.6
Jul-39	1,262.7	0.84%	1,273.3
Aug-39	1,313.5	0.84%	1,324.5
Sep-39	1,671.4	0.84%	1,685.4
Oct-39	1,554.3	0.84%	1,567.4
Nov-39	1,563.3	0.84%	1,576.5
Dec-39	1,859.6	0.84%	1,875.2

**Noncore Commercial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mnth)	Average Year Adjustment %	Final Average Year Forecast (Mnth)
Jan-40	1,855.3	0.84%	1,870.9
Feb-40	1,672.2	0.84%	1,686.3
Mar-40	1,710.8	0.84%	1,725.2
Apr-40	1,525.2	0.84%	1,538.1
May-40	1,442.3	0.84%	1,454.5
Jun-40	1,304.6	0.84%	1,315.6
Jul-40	1,264.9	0.84%	1,275.5
Aug-40	1,315.4	0.84%	1,326.5
Sep-40	1,673.3	0.84%	1,687.3
Oct-40	1,555.3	0.84%	1,568.4
Nov-40	1,563.3	0.84%	1,576.4
Dec-40	1,858.2	0.84%	1,873.9

## **NONCORE INDUSTRIAL**

# Noncore Industrial Non-Refinery Gas Demand

## Introduction

The purpose of these workpapers is to document the methodology used to forecast demand for SoCalGas' noncore industrial non-refinery market. Noncore industrial customers are determined by the NAICS (North American Industrial Classification System) code on the billing record. The final demand forecast for the noncore industrial non-refinery market is estimated by the output from a base econometric forecast and some "out-of-model" (post-model) adjustments, including CPUC-authorized energy efficiency goal, core to noncore migration, and expected load leaving SoCalGas' retail service for service by the City of Vernon.

## Data Sources

### A. Historical Billing Data

Monthly historical gas consumption for the noncore industrial non-refinery market was obtained from SoCalGas' billing records for 2010-2023.

### B. Natural Gas Price

The natural gas prices used to forecast demand were based on the price of gas at the burner-tip in each market segment, which is composed of the gas commodity cost, transportation rate (G-30 tariff rate), and Public Purpose Program surcharge. The cost of gas delivered to the SoCalGas "city gate" was used for the gas commodity cost. Since the G-30 tariff rate is priced according to tier, calculations were made to arrive at the overall average transportation rates from historical usage in 2023. The average rate is calculated from the weighted average rate at each tier.

### C. HDD data

For the base econometric forecast model, SoCalGas recorded monthly system Hdd data are used for historical data, and average year weather design Hdd data are used for forecasting period.

### D. Employment

Employment, as a measure of economic activity, is used to drive the noncore industrial non-refinery demand forecast models. The employment history and forecast through 2040 is based on S&P Global's (formerly Global Insight) November 2021 Regional forecast. S&P Global prepares regular regional employment forecast for California and the 12 counties in SoCalGas' service area. The monthly employment used in the model was generated by summing the employment data over the commercial and industrial NAICS codes. Seasonality was added to S&P Global's

seasonally adjusted history and forecast using seasonality factors derived from California Employment and Development Department (CA EDD) monthly historical not seasonally adjusted (NSA) data.

### **E. Post-Model Adjustment**

Once the base econometric forecast model generated the base forecast, post-model adjustments were made to account for effects the model is not designed to simulate. Energy savings goals that were authorized by the CPUC in decision D.04-09-060 and expected load leaving SoCalGas' retail service for service by the City of Vernon were subtracted from the model forecast. The gas load for these customers essentially transfers from retail to wholesale service. Migration of customers between noncore and core service has been observed to the extent that the net-migration is from core to noncore. An outlook for this net load migration, split between commercial and industrial sectors was developed and results in a *subtraction* from the respective core sector and a corresponding *addition* to the respective noncore sector.

### **Base Forecast Model**

Noncore Industrial non-refinery consumption is forecasted using a base econometric employing monthly historic data from 2010 through 2023. To model the dependent variable (consumption as Mdth), the independent variables are HDD, Employment, Gas burner-tip price, monthly dummy variables, and autoregressive terms to correct for any autocorrelation that may be present in the model errors.

Below are SAS base econometric forecast model results.

The AUTOREG Procedure					
Maximum Likelihood Estimates					
SSE	2550601.37	DFE			152
MSE	16780	Root MSE			129.53869
SBC	2176.48164	AIC			2126.49822
MAE	92.3743711	AICC			2130.10087
MAPE	2.20562502	HQC			2146.78393
Log Likelihood	-1047.2491	Transformed Regression R-Square			0.8170
Durbin-Watson	2.0130	Total R-Square			0.8851
		Observations			168

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr >  t
Intercept	1	322.6331	465.6763	0.69	0.4895
HDD	1	0.4239	0.2828	1.50	0.1359
Employment	1	4.8661	0.6410	7.59	<.0001
Price	1	-5.4107	4.3190	-1.25	0.2122
Month_01	1	282.8115	42.3368	6.68	<.0001
Month_02	1	-22.0194	51.3388	-0.43	0.6686
Month_03	1	371.5544	59.8097	6.21	<.0001
Month_04	1	438.1526	74.4192	5.89	<.0001
Month_05	1	550.9308	82.1256	6.71	<.0001
Month_06	1	400.7137	91.0001	4.40	<.0001
Month_07	1	771.3624	92.4819	8.34	<.0001
Month_08	1	1134	92.3186	12.28	<.0001
Month_09	1	832.3509	90.7362	9.17	<.0001
Month_10	1	539.4757	84.7069	6.37	<.0001
Month_11	1	150.2676	57.1200	2.63	0.0094
AR1	1	-0.4718	0.0718	-6.57	<.0001

The table below shows the base noncore Industrial non-refinery gas demand forecast from econometric model before post-model adjustment.



### Base Forecast of Noncore Industrial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-24	260.1	13.426	1	0	0	0	0	0	0	0	0	0	0	3,780.7
Feb-24	222.4	12.440	0	1	0	0	0	0	0	0	0	0	0	3,503.5
Mar-24	168.4	9.782	0	0	1	0	0	0	0	0	0	0	0	3,896.5
Apr-24	96.3	8.783	0	0	0	1	0	0	0	0	0	0	0	3,913.7
May-24	45.2	8.525	0	0	0	0	1	0	0	0	0	0	0	4,044.0
Jun-24	9.3	9.005	0	0	0	0	0	1	0	0	0	0	0	3,912.0
Jul-24	1.9	10.192	0	0	0	0	0	0	1	0	0	0	0	4,247.1
Aug-24	1.5	10.232	0	0	0	0	0	0	0	1	0	0	0	4,613.7
Sep-24	4.2	10.129	0	0	0	0	0	0	0	0	1	0	0	4,311.9
Oct-24	27.2	9.119	0	0	0	0	0	0	0	0	0	1	0	4,013.0
Nov-24	122.7	10.080	0	0	0	0	0	0	0	0	0	0	1	3,655.5
Dec-24	275.8	11.938	0	0	0	0	0	0	0	0	0	0	0	3,556.2
Jan-25	258.6	11.141	1	0	0	0	0	0	0	0	0	0	0	3,808.9
Feb-25	221.2	10.230	0	1	0	0	0	0	0	0	0	0	0	3,509.4
Mar-25	167.5	10.024	0	0	1	0	0	0	0	0	0	0	0	3,878.6
Apr-25	95.7	9.773	0	0	0	1	0	0	0	0	0	0	0	3,882.0
May-25	45.0	9.169	0	0	0	0	1	0	0	0	0	0	0	4,010.2
Jun-25	9.2	9.130	0	0	0	0	0	1	0	0	0	0	0	3,878.1
Jul-25	1.9	9.875	0	0	0	0	0	0	1	0	0	0	0	4,207.1
Aug-25	1.5	9.928	0	0	0	0	0	0	0	1	0	0	0	4,571.3
Sep-25	4.1	10.398	0	0	0	0	0	0	0	0	1	0	0	4,264.5
Oct-25	27.1	10.351	0	0	0	0	0	0	0	0	0	1	0	3,957.8
Nov-25	122.0	10.703	0	0	0	0	0	0	0	0	0	0	1	3,602.6
Dec-25	274.2	11.686	0	0	0	0	0	0	0	0	0	0	0	3,506.7
Jan-26	257.2	13.761	1	0	0	0	0	0	0	0	0	0	0	3,741.0
Feb-26	219.9	14.778	0	1	0	0	0	0	0	0	0	0	0	3,432.1
Mar-26	166.5	13.725	0	0	1	0	0	0	0	0	0	0	0	3,807.4
Apr-26	95.2	12.325	0	0	0	1	0	0	0	0	0	0	0	3,827.5
May-26	44.7	12.052	0	0	0	0	1	0	0	0	0	0	0	3,955.1
Jun-26	9.2	11.403	0	0	0	0	0	1	0	0	0	0	0	3,828.0
Jul-26	1.9	11.721	0	0	0	0	0	0	1	0	0	0	0	4,169.2
Aug-26	1.5	11.621	0	0	0	0	0	0	0	1	0	0	0	4,536.8
Sep-26	4.1	11.422	0	0	0	0	0	0	0	0	1	0	0	4,236.1
Oct-26	26.9	11.488	0	0	0	0	0	0	0	0	0	1	0	3,941.0
Nov-26	121.3	11.992	0	0	0	0	0	0	0	0	0	0	1	3,588.2
Dec-26	272.6	12.560	0	0	0	0	0	0	0	0	0	0	0	3,497.8

### Base Forecast of Noncore Industrial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-27	255.7	13.663	1	0	0	0	0	0	0	0	0	0	0	3,724.6
Feb-27	218.6	14.634	0	1	0	0	0	0	0	0	0	0	0	3,418.5
Mar-27	165.6	13.501	0	0	1	0	0	0	0	0	0	0	0	3,797.0
Apr-27	94.6	12.124	0	0	0	1	0	0	0	0	0	0	0	3,823.3
May-27	44.5	11.643	0	0	0	0	1	0	0	0	0	0	0	3,952.7
Jun-27	9.1	11.258	0	0	0	0	0	1	0	0	0	0	0	3,825.4
Jul-27	1.9	11.522	0	0	0	0	0	0	1	0	0	0	0	4,171.0
Aug-27	1.5	11.540	0	0	0	0	0	0	0	1	0	0	0	4,539.0
Sep-27	4.1	11.346	0	0	0	0	0	0	0	0	1	0	0	4,239.3
Oct-27	26.7	11.291	0	0	0	0	0	0	0	0	0	1	0	3,940.7
Nov-27	120.6	11.839	0	0	0	0	0	0	0	0	0	0	1	3,585.7
Dec-27	271.1	12.856	0	0	0	0	0	0	0	0	0	0	0	3,490.7
Jan-28	254.2	14.661	1	0	0	0	0	0	0	0	0	0	0	3,715.9
Feb-28	217.4	13.862	0	1	0	0	0	0	0	0	0	0	0	3,417.4
Mar-28	164.6	12.967	0	0	1	0	0	0	0	0	0	0	0	3,792.6
Apr-28	94.1	12.347	0	0	0	1	0	0	0	0	0	0	0	3,809.5
May-28	44.2	12.321	0	0	0	0	1	0	0	0	0	0	0	3,934.6
Jun-28	9.1	12.416	0	0	0	0	0	1	0	0	0	0	0	3,803.1
Jul-28	1.9	12.672	0	0	0	0	0	0	1	0	0	0	0	4,144.5
Aug-28	1.5	12.749	0	0	0	0	0	0	0	1	0	0	0	4,511.0
Sep-28	4.1	12.566	0	0	0	0	0	0	0	0	1	0	0	4,210.1
Oct-28	26.6	12.508	0	0	0	0	0	0	0	0	0	1	0	3,911.1
Nov-28	119.9	12.924	0	0	0	0	0	0	0	0	0	0	1	3,556.2
Dec-28	269.5	13.573	0	0	0	0	0	0	0	0	0	0	0	3,462.5
Jan-29	252.7	14.088	1	0	0	0	0	0	0	0	0	0	0	3,695.5
Feb-29	216.1	13.659	0	1	0	0	0	0	0	0	0	0	0	3,395.4
Mar-29	163.6	13.306	0	0	1	0	0	0	0	0	0	0	0	3,768.4
Apr-29	93.5	12.656	0	0	0	1	0	0	0	0	0	0	0	3,788.5
May-29	44.0	12.624	0	0	0	0	1	0	0	0	0	0	0	3,913.8
Jun-29	9.0	12.699	0	0	0	0	0	1	0	0	0	0	0	3,782.7
Jul-29	1.9	12.851	0	0	0	0	0	0	1	0	0	0	0	4,127.9
Aug-29	1.4	12.975	0	0	0	0	0	0	0	1	0	0	0	4,495.0
Sep-29	4.1	12.776	0	0	0	0	0	0	0	0	1	0	0	4,194.9
Oct-29	26.4	12.719	0	0	0	0	0	0	0	0	0	1	0	3,895.5
Nov-29	119.2	13.212	0	0	0	0	0	0	0	0	0	0	1	3,539.9
Dec-29	267.9	13.773	0	0	0	0	0	0	0	0	0	0	0	3,446.2

### Base Forecast of Noncore Industrial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-30	251.3	14.807	1	0	0	0	0	0	0	0	0	0	0	3,676.0
Feb-30	214.9	14.463	0	1	0	0	0	0	0	0	0	0	0	3,375.4
Mar-30	162.7	14.208	0	0	1	0	0	0	0	0	0	0	0	3,747.9
Apr-30	93.0	13.165	0	0	0	1	0	0	0	0	0	0	0	3,769.7
May-30	43.7	12.719	0	0	0	0	1	0	0	0	0	0	0	3,896.8
Jun-30	9.0	12.979	0	0	0	0	0	1	0	0	0	0	0	3,764.5
Jul-30	1.8	13.100	0	0	0	0	0	0	1	0	0	0	0	4,107.3
Aug-30	1.4	13.195	0	0	0	0	0	0	0	1	0	0	0	4,474.0
Sep-30	4.0	12.959	0	0	0	0	0	0	0	0	1	0	0	4,173.5
Oct-30	26.3	12.917	0	0	0	0	0	0	0	0	0	1	0	3,877.1
Nov-30	118.5	13.458	0	0	0	0	0	0	0	0	0	0	1	3,521.8
Dec-30	266.4	14.070	0	0	0	0	0	0	0	0	0	0	0	3,428.2
Jan-31	249.8	14.069	1	0	0	0	0	0	0	0	0	0	0	3,657.8
Feb-31	213.6	13.552	0	1	0	0	0	0	0	0	0	0	0	3,359.0
Mar-31	161.7	13.214	0	0	1	0	0	0	0	0	0	0	0	3,733.0
Apr-31	92.5	12.649	0	0	0	1	0	0	0	0	0	0	0	3,758.3
May-31	43.4	12.606	0	0	0	0	1	0	0	0	0	0	0	3,884.5
Jun-31	8.9	12.820	0	0	0	0	0	1	0	0	0	0	0	3,753.8
Jul-31	1.8	12.970	0	0	0	0	0	0	1	0	0	0	0	4,102.2
Aug-31	1.4	13.061	0	0	0	0	0	0	0	1	0	0	0	4,470.3
Sep-31	4.0	12.796	0	0	0	0	0	0	0	0	1	0	0	4,171.3
Oct-31	26.1	12.734	0	0	0	0	0	0	0	0	0	1	0	3,878.7
Nov-31	117.8	13.086	0	0	0	0	0	0	0	0	0	0	1	3,524.7
Dec-31	264.8	13.623	0	0	0	0	0	0	0	0	0	0	0	3,431.7
Jan-32	248.3	13.720	1	0	0	0	0	0	0	0	0	0	0	3,655.8
Feb-32	212.3	13.417	0	1	0	0	0	0	0	0	0	0	0	3,355.0
Mar-32	160.8	13.107	0	0	1	0	0	0	0	0	0	0	0	3,727.9
Apr-32	91.9	12.634	0	0	0	1	0	0	0	0	0	0	0	3,752.3
May-32	43.2	12.527	0	0	0	0	1	0	0	0	0	0	0	3,879.1
Jun-32	8.9	12.685	0	0	0	0	0	1	0	0	0	0	0	3,748.6
Jul-32	1.8	12.804	0	0	0	0	0	0	1	0	0	0	0	4,094.4
Aug-32	1.4	12.930	0	0	0	0	0	0	0	1	0	0	0	4,461.7
Sep-32	4.0	12.666	0	0	0	0	0	0	0	0	1	0	0	4,162.2
Oct-32	26.0	12.651	0	0	0	0	0	0	0	0	0	1	0	3,866.8
Nov-32	117.1	13.161	0	0	0	0	0	0	0	0	0	0	1	3,511.2
Dec-32	263.3	13.638	0	0	0	0	0	0	0	0	0	0	0	3,417.5

### Base Forecast of Noncore Industrial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mnth
Jan-33	246.8	13.850	1	0	0	0	0	0	0	0	0	0	0	3,644.6
Feb-33	211.1	13.650	0	1	0	0	0	0	0	0	0	0	0	3,344.1
Mar-33	159.8	13.305	0	0	1	0	0	0	0	0	0	0	0	3,718.0
Apr-33	91.4	12.703	0	0	0	1	0	0	0	0	0	0	0	3,744.1
May-33	42.9	12.599	0	0	0	0	1	0	0	0	0	0	0	3,871.5
Jun-33	8.8	12.765	0	0	0	0	0	1	0	0	0	0	0	3,741.4
Jul-33	1.8	12.841	0	0	0	0	0	0	1	0	0	0	0	4,086.5
Aug-33	1.4	12.899	0	0	0	0	0	0	0	1	0	0	0	4,454.1
Sep-33	4.0	12.745	0	0	0	0	0	0	0	0	1	0	0	4,154.0
Oct-33	25.8	12.721	0	0	0	0	0	0	0	0	0	1	0	3,857.1
Nov-33	116.4	13.220	0	0	0	0	0	0	0	0	0	0	1	3,500.9
Dec-33	261.7	13.538	0	0	0	0	0	0	0	0	0	0	0	3,407.4
Jan-34	245.4	13.635	1	0	0	0	0	0	0	0	0	0	0	3,638.1
Feb-34	209.8	13.509	0	1	0	0	0	0	0	0	0	0	0	3,336.9
Mar-34	158.9	13.222	0	0	1	0	0	0	0	0	0	0	0	3,710.2
Apr-34	90.8	12.745	0	0	0	1	0	0	0	0	0	0	0	3,731.4
May-34	42.7	12.648	0	0	0	0	1	0	0	0	0	0	0	3,857.9
Jun-34	8.8	12.806	0	0	0	0	0	1	0	0	0	0	0	3,726.7
Jul-34	1.8	12.882	0	0	0	0	0	0	1	0	0	0	0	4,072.8
Aug-34	1.4	12.979	0	0	0	0	0	0	0	1	0	0	0	4,440.3
Sep-34	3.9	12.853	0	0	0	0	0	0	0	0	1	0	0	4,140.3
Oct-34	25.7	12.846	0	0	0	0	0	0	0	0	0	1	0	3,843.2
Nov-34	115.7	13.211	0	0	0	0	0	0	0	0	0	0	1	3,487.5
Dec-34	260.1	13.564	0	0	0	0	0	0	0	0	0	0	0	3,393.4
Jan-35	243.9	13.638	1	0	0	0	0	0	0	0	0	0	0	3,623.8
Feb-35	208.6	13.446	0	1	0	0	0	0	0	0	0	0	0	3,323.4
Mar-35	157.9	13.072	0	0	1	0	0	0	0	0	0	0	0	3,697.8
Apr-35	90.3	12.490	0	0	0	1	0	0	0	0	0	0	0	3,721.0
May-35	42.4	12.353	0	0	0	0	1	0	0	0	0	0	0	3,848.1
Jun-35	8.7	12.470	0	0	0	0	0	1	0	0	0	0	0	3,717.4
Jul-35	1.8	12.553	0	0	0	0	0	0	1	0	0	0	0	4,065.5
Aug-35	1.4	12.686	0	0	0	0	0	0	0	1	0	0	0	4,433.4
Sep-35	3.9	12.539	0	0	0	0	0	0	0	0	1	0	0	4,133.9
Oct-35	25.5	12.508	0	0	0	0	0	0	0	0	0	1	0	3,838.8
Nov-35	115.0	13.031	0	0	0	0	0	0	0	0	0	0	1	3,482.4
Dec-35	258.6	13.256	0	0	0	0	0	0	0	0	0	0	0	3,389.0

### Base Forecast of Noncore Industrial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mnth
Jan-36	242.4	13.287	1	0	0	0	0	0	0	0	0	0	0	3,617.0
Feb-36	207.3	13.127	0	1	0	0	0	0	0	0	0	0	0	3,315.9
Mar-36	157.0	12.883	0	0	1	0	0	0	0	0	0	0	0	3,689.1
Apr-36	89.7	12.467	0	0	0	1	0	0	0	0	0	0	0	3,711.2
May-36	42.2	12.370	0	0	0	0	1	0	0	0	0	0	0	3,838.1
Jun-36	8.7	12.424	0	0	0	0	0	1	0	0	0	0	0	3,707.7
Jul-36	1.8	12.561	0	0	0	0	0	0	1	0	0	0	0	4,056.0
Aug-36	1.4	12.634	0	0	0	0	0	0	0	1	0	0	0	4,424.2
Sep-36	3.9	12.645	0	0	0	0	0	0	0	0	1	0	0	4,124.0
Oct-36	25.4	12.631	0	0	0	0	0	0	0	0	0	1	0	3,830.0
Nov-36	114.3	13.065	0	0	0	0	0	0	0	0	0	0	1	3,474.4
Dec-36	257.0	13.334	0	0	0	0	0	0	0	0	0	0	0	3,380.9
Jan-37	240.9	13.357	1	0	0	0	0	0	0	0	0	0	0	3,607.3
Feb-37	206.0	13.170	0	1	0	0	0	0	0	0	0	0	0	3,306.9
Mar-37	156.0	12.978	0	0	1	0	0	0	0	0	0	0	0	3,680.6
Apr-37	89.2	12.636	0	0	0	1	0	0	0	0	0	0	0	3,704.5
May-37	41.9	12.430	0	0	0	0	1	0	0	0	0	0	0	3,832.5
Jun-37	8.6	12.498	0	0	0	0	0	1	0	0	0	0	0	3,702.5
Jul-37	1.8	12.623	0	0	0	0	0	0	1	0	0	0	0	4,051.2
Aug-37	1.4	12.719	0	0	0	0	0	0	0	1	0	0	0	4,419.4
Sep-37	3.9	12.735	0	0	0	0	0	0	0	0	1	0	0	4,119.3
Oct-37	25.2	12.758	0	0	0	0	0	0	0	0	0	1	0	3,827.6
Nov-37	113.6	13.166	0	0	0	0	0	0	0	0	0	0	1	3,472.5
Dec-37	255.4	13.449	0	0	0	0	0	0	0	0	0	0	0	3,379.2
Jan-38	239.5	13.474	1	0	0	0	0	0	0	0	0	0	0	3,604.7
Feb-38	204.8	13.246	0	1	0	0	0	0	0	0	0	0	0	3,305.4
Mar-38	155.1	12.985	0	0	1	0	0	0	0	0	0	0	0	3,680.3
Apr-38	88.6	12.487	0	0	0	1	0	0	0	0	0	0	0	3,705.1
May-38	41.7	12.405	0	0	0	0	1	0	0	0	0	0	0	3,832.6
Jun-38	8.6	12.480	0	0	0	0	0	1	0	0	0	0	0	3,702.8
Jul-38	1.8	12.573	0	0	0	0	0	0	1	0	0	0	0	4,051.8
Aug-38	1.4	12.650	0	0	0	0	0	0	0	1	0	0	0	4,420.3
Sep-38	3.8	12.626	0	0	0	0	0	0	0	0	1	0	0	4,120.4
Oct-38	25.0	12.642	0	0	0	0	0	0	0	0	0	1	0	3,827.8
Nov-38	113.0	13.085	0	0	0	0	0	0	0	0	0	0	1	3,472.1
Dec-38	253.9	13.293	0	0	0	0	0	0	0	0	0	0	0	3,378.6

### Base Forecast of Noncore Industrial Gas Demand (2024-2040)

Month	HDD	Price	Month _01	Month _02	Month _03	Month _04	Month _05	Month _06	Month _07	Month _08	Month _09	Month _10	Month _11	Forecast Mdth
Jan-39	238.0	13.359	1	0	0	0	0	0	0	0	0	0	0	3,603.7
Feb-39	203.5	13.110	0	1	0	0	0	0	0	0	0	0	0	3,304.6
Mar-39	154.1	12.842	0	0	1	0	0	0	0	0	0	0	0	3,679.8
Apr-39	88.1	12.394	0	0	0	1	0	0	0	0	0	0	0	3,705.0
May-39	41.4	12.307	0	0	0	0	1	0	0	0	0	0	0	3,832.8
Jun-39	8.5	12.382	0	0	0	0	0	1	0	0	0	0	0	3,703.1
Jul-39	1.7	12.462	0	0	0	0	0	0	1	0	0	0	0	4,053.4
Aug-39	1.4	12.567	0	0	0	0	0	0	0	1	0	0	0	4,422.1
Sep-39	3.8	12.539	0	0	0	0	0	0	0	0	1	0	0	4,122.6
Oct-39	24.9	12.567	0	0	0	0	0	0	0	0	0	1	0	3,830.0
Nov-39	112.3	12.966	0	0	0	0	0	0	0	0	0	0	1	3,474.5
Dec-39	252.3	13.213	0	0	0	0	0	0	0	0	0	0	0	3,380.5
Jan-40	236.5	13.284	1	0	0	0	0	0	0	0	0	0	0	3,606.9
Feb-40	202.2	13.088	0	1	0	0	0	0	0	0	0	0	0	3,307.1
Mar-40	153.1	12.816	0	0	1	0	0	0	0	0	0	0	0	3,681.7
Apr-40	87.5	12.370	0	0	0	1	0	0	0	0	0	0	0	3,704.8
May-40	41.1	12.332	0	0	0	0	1	0	0	0	0	0	0	3,831.7
Jun-40	8.5	12.361	0	0	0	0	0	1	0	0	0	0	0	3,701.8
Jul-40	1.7	12.412	0	0	0	0	0	0	1	0	0	0	0	4,048.6
Aug-40	1.4	12.569	0	0	0	0	0	0	0	1	0	0	0	4,416.2
Sep-40	3.8	12.470	0	0	0	0	0	0	0	0	1	0	0	4,116.1
Oct-40	24.7	12.500	0	0	0	0	0	0	0	0	0	1	0	3,823.6
Nov-40	111.6	12.940	0	0	0	0	0	0	0	0	0	0	1	3,467.8
Dec-40	250.8	13.154	0	0	0	0	0	0	0	0	0	0	0	3,373.9

**Noncore Industrial Annual Post-model Adjustment (2023-2040)**

Year	Base Econometric Model Output (MDth)	Vernon Migration	EE Program (MDth)	Migration: core --> noncore	Final Average Year Forecast (MDth)	Adjustment %
2023	46,379.3	0.0	0.0	0.0	46,379.3	0.0%
2024	47,447.8	15.0	214.8	267.3	47,485.3	0.1%
2025	47,077.4	30.0	371.4	267.3	46,943.3	-0.3%
2026	46,560.2	45.0	492.2	267.3	46,290.3	-0.6%
2027	46,507.8	60.1	612.2	267.3	46,102.8	-0.9%
2028	46,268.6	75.1	725.2	267.3	45,735.6	-1.2%
2029	46,043.6	90.1	830.8	267.3	45,389.9	-1.4%
2030	45,812.2	105.1	933.6	267.3	45,040.8	-1.7%
2031	45,725.3	120.1	1,030.6	267.3	44,841.9	-1.9%
2032	45,632.2	135.1	1,125.5	267.3	44,638.9	-2.2%
2033	45,523.9	150.1	1,217.1	267.3	44,423.9	-2.4%
2034	45,378.8	165.1	1,305.5	267.3	44,175.4	-2.7%
2035	45,274.5	180.2	1,391.4	267.3	43,970.2	-2.9%
2036	45,168.5	195.2	1,477.3	267.3	43,763.3	-3.1%
2037	45,103.6	210.2	1,563.2	267.3	43,597.5	-3.3%
2038	45,102.1	225.2	1,649.1	267.3	43,495.1	-3.6%
2039	45,112.1	225.2	1,520.2	267.3	43,634.0	-3.3%
2040	45,080.4	225.2	1,449.5	267.3	43,672.9	-3.1%

**Noncore Industrial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-24	3,780.7	0.08%	3,783.7
Feb-24	3,503.5	0.08%	3,506.3
Mar-24	3,896.5	0.08%	3,899.6
Apr-24	3,913.7	0.08%	3,916.8
May-24	4,044.0	0.08%	4,047.2
Jun-24	3,912.0	0.08%	3,915.1
Jul-24	4,247.1	0.08%	4,250.4
Aug-24	4,613.7	0.08%	4,617.4
Sep-24	4,311.9	0.08%	4,315.3
Oct-24	4,013.0	0.08%	4,016.1
Nov-24	3,655.5	0.08%	3,658.4
Dec-24	3,556.2	0.08%	3,559.0
Jan-25	3,808.9	-0.28%	3,798.1
Feb-25	3,509.4	-0.28%	3,499.4
Mar-25	3,878.6	-0.28%	3,867.6
Apr-25	3,882.0	-0.28%	3,871.0
May-25	4,010.2	-0.28%	3,998.7
Jun-25	3,878.1	-0.28%	3,867.1
Jul-25	4,207.1	-0.28%	4,195.1
Aug-25	4,571.3	-0.28%	4,558.3
Sep-25	4,264.5	-0.28%	4,252.4
Oct-25	3,957.8	-0.28%	3,946.6
Nov-25	3,602.6	-0.28%	3,592.3
Dec-25	3,506.7	-0.28%	3,496.7
Jan-26	3,741.0	-0.58%	3,719.3
Feb-26	3,432.1	-0.58%	3,412.2
Mar-26	3,807.4	-0.58%	3,785.4
Apr-26	3,827.5	-0.58%	3,805.3
May-26	3,955.1	-0.58%	3,932.2
Jun-26	3,828.0	-0.58%	3,805.8
Jul-26	4,169.2	-0.58%	4,145.0
Aug-26	4,536.8	-0.58%	4,510.5
Sep-26	4,236.1	-0.58%	4,211.5
Oct-26	3,941.0	-0.58%	3,918.1
Nov-26	3,588.2	-0.58%	3,567.4
Dec-26	3,497.8	-0.58%	3,477.5
Jan-27	3,724.6	-0.87%	3,692.2
Feb-27	3,418.5	-0.87%	3,388.7
Mar-27	3,797.0	-0.87%	3,763.9
Apr-27	3,823.3	-0.87%	3,790.0
May-27	3,952.7	-0.87%	3,918.3
Jun-27	3,825.4	-0.87%	3,792.1
Jul-27	4,171.0	-0.87%	4,134.7
Aug-27	4,539.0	-0.87%	4,499.4
Sep-27	4,239.3	-0.87%	4,202.3
Oct-27	3,940.7	-0.87%	3,906.4
Nov-27	3,585.7	-0.87%	3,554.5
Dec-27	3,490.7	-0.87%	3,460.4



**Noncore Industrial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-28	3,715.9	-1.15%	3,673.1
Feb-28	3,417.4	-1.15%	3,378.0
Mar-28	3,792.6	-1.15%	3,748.9
Apr-28	3,809.5	-1.15%	3,765.6
May-28	3,934.6	-1.15%	3,889.3
Jun-28	3,803.1	-1.15%	3,759.3
Jul-28	4,144.5	-1.15%	4,096.8
Aug-28	4,511.0	-1.15%	4,459.1
Sep-28	4,210.1	-1.15%	4,161.6
Oct-28	3,911.1	-1.15%	3,866.0
Nov-28	3,556.2	-1.15%	3,515.3
Dec-28	3,462.5	-1.15%	3,422.6
Jan-29	3,695.5	-1.42%	3,643.0
Feb-29	3,395.4	-1.42%	3,347.2
Mar-29	3,768.4	-1.42%	3,714.9
Apr-29	3,788.5	-1.42%	3,734.7
May-29	3,913.8	-1.42%	3,858.2
Jun-29	3,782.7	-1.42%	3,729.0
Jul-29	4,127.9	-1.42%	4,069.3
Aug-29	4,495.0	-1.42%	4,431.2
Sep-29	4,194.9	-1.42%	4,135.3
Oct-29	3,895.5	-1.42%	3,840.2
Nov-29	3,539.9	-1.42%	3,489.7
Dec-29	3,446.2	-1.42%	3,397.3
Jan-30	3,676.0	-1.68%	3,614.1
Feb-30	3,375.4	-1.68%	3,318.6
Mar-30	3,747.9	-1.68%	3,684.8
Apr-30	3,769.7	-1.68%	3,706.2
May-30	3,896.8	-1.68%	3,831.2
Jun-30	3,764.5	-1.68%	3,701.1
Jul-30	4,107.3	-1.68%	4,038.1
Aug-30	4,474.0	-1.68%	4,398.6
Sep-30	4,173.5	-1.68%	4,103.3
Oct-30	3,877.1	-1.68%	3,811.8
Nov-30	3,521.8	-1.68%	3,462.5
Dec-30	3,428.2	-1.68%	3,370.5
Jan-31	3,657.8	-1.93%	3,587.1
Feb-31	3,359.0	-1.93%	3,294.1
Mar-31	3,733.0	-1.93%	3,660.9
Apr-31	3,758.3	-1.93%	3,685.6
May-31	3,884.5	-1.93%	3,809.5
Jun-31	3,753.8	-1.93%	3,681.2
Jul-31	4,102.2	-1.93%	4,023.0
Aug-31	4,470.3	-1.93%	4,383.9
Sep-31	4,171.3	-1.93%	4,090.8
Oct-31	3,878.7	-1.93%	3,803.7
Nov-31	3,524.7	-1.93%	3,456.6
Dec-31	3,431.7	-1.93%	3,365.4

**Noncore Industrial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-32	3,655.8	-2.18%	3,576.2
Feb-32	3,355.0	-2.18%	3,281.9
Mar-32	3,727.9	-2.18%	3,646.7
Apr-32	3,752.3	-2.18%	3,670.6
May-32	3,879.1	-2.18%	3,794.6
Jun-32	3,748.6	-2.18%	3,667.0
Jul-32	4,094.4	-2.18%	4,005.3
Aug-32	4,461.7	-2.18%	4,364.6
Sep-32	4,162.2	-2.18%	4,071.6
Oct-32	3,866.8	-2.18%	3,782.6
Nov-32	3,511.2	-2.18%	3,434.7
Dec-32	3,417.5	-2.18%	3,343.1
Jan-33	3,644.6	-2.42%	3,556.6
Feb-33	3,344.1	-2.42%	3,263.3
Mar-33	3,718.0	-2.42%	3,628.2
Apr-33	3,744.1	-2.42%	3,653.6
May-33	3,871.5	-2.42%	3,778.0
Jun-33	3,741.4	-2.42%	3,651.0
Jul-33	4,086.5	-2.42%	3,987.8
Aug-33	4,454.1	-2.42%	4,346.5
Sep-33	4,154.0	-2.42%	4,053.6
Oct-33	3,857.1	-2.42%	3,763.9
Nov-33	3,500.9	-2.42%	3,416.3
Dec-33	3,407.4	-2.42%	3,325.1
Jan-34	3,638.1	-2.65%	3,541.7
Feb-34	3,336.9	-2.65%	3,248.4
Mar-34	3,710.2	-2.65%	3,611.8
Apr-34	3,731.4	-2.65%	3,632.5
May-34	3,857.9	-2.65%	3,755.6
Jun-34	3,726.7	-2.65%	3,627.9
Jul-34	4,072.8	-2.65%	3,964.8
Aug-34	4,440.3	-2.65%	4,322.6
Sep-34	4,140.3	-2.65%	4,030.5
Oct-34	3,843.2	-2.65%	3,741.3
Nov-34	3,487.5	-2.65%	3,395.0
Dec-34	3,393.4	-2.65%	3,303.5
Jan-35	3,623.8	-2.88%	3,519.4
Feb-35	3,323.4	-2.88%	3,227.6
Mar-35	3,697.8	-2.88%	3,591.3
Apr-35	3,721.0	-2.88%	3,613.8
May-35	3,848.1	-2.88%	3,737.3
Jun-35	3,717.4	-2.88%	3,610.3
Jul-35	4,065.5	-2.88%	3,948.4
Aug-35	4,433.4	-2.88%	4,305.7
Sep-35	4,133.9	-2.88%	4,014.8
Oct-35	3,838.8	-2.88%	3,728.2
Nov-35	3,482.4	-2.88%	3,382.0
Dec-35	3,389.0	-2.88%	3,291.4

**Noncore Industrial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-36	3,617.0	-3.11%	3,504.5
Feb-36	3,315.9	-3.11%	3,212.7
Mar-36	3,689.1	-3.11%	3,574.3
Apr-36	3,711.2	-3.11%	3,595.8
May-36	3,838.1	-3.11%	3,718.7
Jun-36	3,707.7	-3.11%	3,592.4
Jul-36	4,056.0	-3.11%	3,929.8
Aug-36	4,424.2	-3.11%	4,286.6
Sep-36	4,124.0	-3.11%	3,995.7
Oct-36	3,830.0	-3.11%	3,710.9
Nov-36	3,474.4	-3.11%	3,366.3
Dec-36	3,380.9	-3.11%	3,275.7
Jan-37	3,607.3	-3.34%	3,486.9
Feb-37	3,306.9	-3.34%	3,196.5
Mar-37	3,680.6	-3.34%	3,557.7
Apr-37	3,704.5	-3.34%	3,580.8
May-37	3,832.5	-3.34%	3,704.5
Jun-37	3,702.5	-3.34%	3,578.9
Jul-37	4,051.2	-3.34%	3,915.9
Aug-37	4,419.4	-3.34%	4,271.9
Sep-37	4,119.3	-3.34%	3,981.7
Oct-37	3,827.6	-3.34%	3,699.8
Nov-37	3,472.5	-3.34%	3,356.6
Dec-37	3,379.2	-3.34%	3,266.4
Jan-38	3,604.7	-3.56%	3,476.3
Feb-38	3,305.4	-3.56%	3,187.6
Mar-38	3,680.3	-3.56%	3,549.2
Apr-38	3,705.1	-3.56%	3,573.1
May-38	3,832.6	-3.56%	3,696.1
Jun-38	3,702.8	-3.56%	3,570.8
Jul-38	4,051.8	-3.56%	3,907.5
Aug-38	4,420.3	-3.56%	4,262.8
Sep-38	4,120.4	-3.56%	3,973.6
Oct-38	3,827.8	-3.56%	3,691.4
Nov-38	3,472.1	-3.56%	3,348.4
Dec-38	3,378.6	-3.56%	3,258.2
Jan-39	3,603.7	-3.28%	3,485.6
Feb-39	3,304.6	-3.28%	3,196.4
Mar-39	3,679.8	-3.28%	3,559.3
Apr-39	3,705.0	-3.28%	3,583.6
May-39	3,832.8	-3.28%	3,707.2
Jun-39	3,703.1	-3.28%	3,581.8
Jul-39	4,053.4	-3.28%	3,920.6
Aug-39	4,422.1	-3.28%	4,277.2
Sep-39	4,122.6	-3.28%	3,987.5
Oct-39	3,830.0	-3.28%	3,704.5
Nov-39	3,474.5	-3.28%	3,360.6
Dec-39	3,380.5	-3.28%	3,269.8

**Noncore Industrial Monthly Post-model Adjustment (2024-2040)**

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-40	3,606.9	-3.12%	3,494.3
Feb-40	3,307.1	-3.12%	3,203.8
Mar-40	3,681.7	-3.12%	3,566.8
Apr-40	3,704.8	-3.12%	3,589.1
May-40	3,831.7	-3.12%	3,712.1
Jun-40	3,701.8	-3.12%	3,586.2
Jul-40	4,048.6	-3.12%	3,922.2
Aug-40	4,416.2	-3.12%	4,278.3
Sep-40	4,116.1	-3.12%	3,987.6
Oct-40	3,823.6	-3.12%	3,704.2
Nov-40	3,467.8	-3.12%	3,359.6
Dec-40	3,373.9	-3.12%	3,268.6

## **NATURAL GAS VEHICLES**

**1. Title - SoCalGas G-NGV Forecast of Volumes**

**2. Data**

<b>Table 1 - SoCalGas Historic Volumes</b>				
Year s	Compressed		Uncompressed	
	Volume	Annual Growth	Volume	Annual Growth
	MM CCF	%	MM CCF	%
2013	2.3	-	111.5	-
2014	2.2	-4.2%	119.9	7.5%
2015	2.3	4.4%	125.2	4.4%
2016	2.3	0.2%	131.1	4.7%
2017	2.3	0.3%	138.3	5.4%
2018	3.56	51.4%	146.2	5.7%
2019	3.98	12.0%	150.9	3.2%
2020	4.74	19.0%	131.3	-13.0%
2021	5.83	23.0%	143.4	9.2%

<b>Table 2 - SoCalGas Monthly Volumes</b>													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann

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Compressed Volumes - Total (M decatherms)													
2021	38.5	38.3	48.1	46.5	46.2	49.8	51.6	56.7	55.6	58.6	59.6	60.3	609.9
2022	43.4	43.2	54.3	52.5	52.1	56.1	58.2	63.9	62.7	66.1	67.2	68.0	687.8
2023	49.0	48.8	61.2	59.2	58.7	63.3	65.6	72.1	70.7	74.5	75.8	76.7	775.7
2024	55.2	55.0	69.1	66.7	66.2	71.4	74.0	81.3	79.7	84.0	85.5	86.5	874.7
2025	62.3	62.0	77.9	75.3	74.7	80.5	83.5	91.6	89.9	94.8	96.4	97.6	986.5
2026	69.6	69.3	87.0	84.1	83.5	90.0	93.3	102.4	100.5	105.9	107.8	109.1	1,102.6
2027	77.1	76.8	96.4	93.2	92.5	99.7	103.4	113.5	111.3	117.3	119.4	120.8	1,221.4
2028	84.7	84.3	105.8	102.3	101.5	109.5	113.5	124.5	122.2	128.8	131.0	132.6	1,340.8
2029	92.1	91.7	115.1	111.3	110.4	119.1	123.4	135.5	132.9	140.1	142.5	144.3	1,458.4
2030	99.3	98.8	124.1	119.9	119.0	128.3	133.0	146.0	143.3	151.0	153.6	155.5	1,571.8
2031	106.0	105.5	132.5	128.0	127.1	137.0	142.0	155.9	153.0	161.2	164.0	166.0	1,678.2
2032	112.1	111.6	140.1	135.4	134.4	144.9	150.2	164.9	161.8	170.5	173.5	175.6	1,775.1
2033	117.4	116.9	146.8	141.9	140.8	151.8	157.4	172.8	169.5	178.7	181.8	184.0	1,859.9
2034	121.9	121.4	152.4	147.3	146.2	157.6	163.3	179.3	175.9	185.4	188.6	190.9	1,930.1
2035	125.3	124.7	156.6	151.3	150.2	161.9	167.9	184.3	180.8	190.6	193.9	196.2	1,983.6
2036	128.7	128.2	160.9	155.5	154.4	166.4	172.5	189.4	185.8	195.9	199.2	201.6	2,038.6
2037	132.3	131.7	165.4	159.9	158.7	171.0	177.3	194.6	191.0	201.3	204.8	207.2	2,095.1
2038	136.0	135.4	170.0	164.3	163.1	175.8	182.2	200.0	196.3	206.9	210.4	213.0	2,153.2

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2039	139.7	139.1	174.7	168.8	167.6	180.7	187.3	205.6	201.7	212.6	216.3	218.9	2,213.0
2040	143.6	143.0	179.6	173.5	172.2	185.7	192.5	211.3	207.3	218.5	222.3	225.0	2,274.3
Compressed Volumes - Public Use (M decatherms)													
2021	26.0	26.7	34.2	33.9	33.7	36.5	38.1	42.5	41.8	44.7	46.6	47.2	451.7
2022	27.1	28.0	36.2	36.0	35.8	38.8	40.6	45.4	44.7	48.0	50.2	50.9	481.6
2023	30.2	31.3	40.4	40.2	40.0	43.3	45.4	50.8	50.0	53.7	56.3	57.0	538.5
2024	35.5	36.6	47.2	46.8	46.5	50.4	52.8	58.9	58.1	62.2	65.0	65.8	625.9
2025	41.4	42.6	54.7	54.2	53.8	58.3	61.0	68.0	67.0	71.7	74.7	75.7	723.1
2026	47.3	48.5	62.2	61.5	61.2	66.2	69.2	77.1	75.9	81.2	84.5	85.6	820.5
2027	54.8	56.0	71.6	70.6	70.2	75.9	79.3	88.1	86.8	92.6	96.2	97.3	939.3
2028	62.3	63.5	81.0	79.7	79.2	85.7	89.4	99.2	97.6	104.1	107.8	109.1	1,058.7
2029	69.7	70.9	90.3	88.7	88.1	95.3	99.3	110.2	108.4	115.4	119.3	120.8	1,176.3
2030	76.9	78.0	99.3	97.3	96.7	104.5	108.9	120.7	118.7	126.3	130.4	132.0	1,289.7
2031	83.6	84.7	107.7	105.5	104.7	113.2	118.0	130.6	128.4	136.5	140.8	142.5	1,396.2
2032	89.7	90.8	115.3	112.9	112.1	121.1	126.2	139.6	137.2	145.8	150.3	152.1	1,493.0
2033	95.1	96.1	122.0	119.3	118.5	128.1	133.3	147.4	145.0	153.9	158.5	160.5	1,577.8
2034	99.5	100.5	127.6	124.7	123.8	133.8	139.3	154.0	151.4	160.7	165.4	167.4	1,648.0
2035	102.9	103.9	131.8	128.8	127.9	138.2	143.8	158.9	156.2	165.8	170.6	172.7	1,701.5
2036	106.4	107.3	136.1	133.0	132.0	142.6	148.4	164.0	161.2	171.1	176.0	178.2	1,756.5



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2037	109.9	110.9	140.6	137.3	136.3	147.3	153.2	169.3	166.4	176.5	181.5	183.8	1,813.0
2038	113.6	114.6	145.2	141.7	140.7	152.0	158.1	174.7	171.7	182.1	187.2	189.5	1,871.1
2039	117.4	118.3	149.9	146.3	145.2	156.9	163.2	180.2	177.1	187.9	193.1	195.4	1,930.9
2040	121.3	122.2	154.7	150.9	149.9	161.9	168.4	185.9	182.7	193.7	199.1	201.5	1,992.2
Compressed Volumes - Utility Use (M decatherms)													
2021	12.5	11.7	13.9	12.7	12.5	13.3	13.5	14.2	13.8	13.9	13.0	13.2	158.2
2022	16.3	15.2	18.1	16.5	16.3	17.4	17.6	18.5	18.0	18.1	17.0	17.2	206.2
2023	18.8	17.5	20.9	19.0	18.8	20.0	20.2	21.3	20.7	20.8	19.5	19.7	237.2
2024	19.7	18.4	21.9	19.9	19.7	21.0	21.2	22.3	21.7	21.8	20.5	20.7	248.8
2025	20.9	19.4	23.2	21.1	20.9	22.2	22.5	23.6	22.9	23.1	21.7	21.9	263.4
2026	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2027	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2028	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2029	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2030	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2031	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2032	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2033	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2034	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1

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2035	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2036	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2037	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2038	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2039	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
2040	22.4	20.8	24.8	22.6	22.3	23.8	24.1	25.3	24.6	24.8	23.2	23.5	282.1
Uncompressed Volumes - Total (M Decatherms)													
2021	1,061	1,021	1,198	1,197	1,199	1,243	1,280	1,347	1,330	1,335	1,288	1,303	14,801
2022	1,118	1,077	1,263	1,262	1,264	1,311	1,350	1,420	1,402	1,408	1,358	1,373	15,605
2023	1,179	1,135	1,332	1,330	1,332	1,382	1,423	1,497	1,478	1,484	1,432	1,448	16,453
2024	1,243	1,197	1,404	1,402	1,405	1,457	1,500	1,579	1,559	1,565	1,510	1,527	17,347
2025	1,311	1,262	1,480	1,479	1,481	1,536	1,582	1,664	1,643	1,650	1,592	1,610	18,289
2026	1,382	1,330	1,561	1,559	1,562	1,620	1,668	1,755	1,733	1,739	1,678	1,697	19,283
2027	1,457	1,403	1,645	1,644	1,646	1,708	1,758	1,850	1,827	1,834	1,770	1,789	20,331
2028	1,530	1,473	1,728	1,726	1,729	1,794	1,847	1,943	1,919	1,926	1,859	1,879	21,355
2029	1,601	1,542	1,808	1,806	1,809	1,877	1,932	2,033	2,008	2,016	1,945	1,966	22,344
2030	1,669	1,607	1,885	1,883	1,886	1,957	2,014	2,119	2,093	2,101	2,027	2,050	23,290
2031	1,733	1,669	1,957	1,955	1,958	2,032	2,091	2,201	2,173	2,181	2,105	2,128	24,183
2032	1,792	1,726	2,024	2,022	2,026	2,101	2,163	2,276	2,248	2,256	2,177	2,201	25,013

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2033	1,847	1,778	2,086	2,083	2,087	2,165	2,229	2,345	2,316	2,325	2,243	2,268	25,772
2034	1,895	1,825	2,141	2,138	2,142	2,222	2,288	2,407	2,377	2,386	2,302	2,328	26,451
2035	1,938	1,866	2,189	2,186	2,190	2,272	2,339	2,461	2,430	2,439	2,354	2,380	27,042
2036	1,973	1,900	2,229	2,226	2,230	2,313	2,382	2,506	2,474	2,484	2,397	2,423	27,538
2037	2,002	1,927	2,261	2,258	2,262	2,347	2,416	2,542	2,510	2,520	2,431	2,458	27,933
2038	2,022	1,947	2,284	2,281	2,285	2,371	2,441	2,568	2,536	2,546	2,456	2,484	28,222
2039	2,035	1,959	2,298	2,296	2,300	2,386	2,456	2,584	2,552	2,562	2,472	2,499	28,400
2040	2,040	1,964	2,304	2,301	2,305	2,391	2,462	2,590	2,558	2,568	2,478	2,505	28,467
Uncompressed Volumes - Customer Owned Gas (M decatherms)													
2021	759	741	856	868	878	911	943	960	937	940	893	887	10,574
2022	800	781	902	915	925	961	994	1,012	988	992	942	935	11,148
2023	844	824	951	965	975	1,013	1,049	1,067	1,042	1,045	993	986	11,754
2024	890	868	1,003	1,017	1,028	1,068	1,106	1,125	1,098	1,102	1,047	1,040	12,393
2025	938	916	1,058	1,073	1,084	1,126	1,166	1,186	1,158	1,162	1,104	1,096	13,066
2026	989	965	1,115	1,131	1,143	1,187	1,229	1,251	1,221	1,225	1,164	1,156	13,776
2027	1,043	1,018	1,176	1,192	1,205	1,252	1,296	1,319	1,287	1,292	1,227	1,219	14,525
2028	1,095	1,069	1,235	1,252	1,266	1,315	1,361	1,385	1,352	1,357	1,289	1,280	15,256
2029	1,146	1,119	1,292	1,310	1,325	1,376	1,424	1,449	1,415	1,420	1,349	1,339	15,963
2030	1,194	1,166	1,347	1,366	1,381	1,434	1,484	1,511	1,475	1,480	1,406	1,396	16,639

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2031	1,240	1,211	1,399	1,418	1,434	1,489	1,541	1,568	1,531	1,537	1,460	1,449	17,277
2032	1,283	1,252	1,447	1,467	1,483	1,540	1,594	1,622	1,584	1,589	1,510	1,499	17,870
2033	1,322	1,290	1,490	1,511	1,528	1,587	1,642	1,672	1,632	1,638	1,556	1,545	18,412
2034	1,356	1,324	1,530	1,551	1,568	1,629	1,686	1,716	1,675	1,681	1,597	1,585	18,897
2035	1,387	1,354	1,564	1,586	1,603	1,665	1,723	1,754	1,712	1,718	1,632	1,621	19,319
2036	1,412	1,379	1,593	1,615	1,633	1,695	1,755	1,786	1,744	1,750	1,662	1,651	19,674
2037	1,432	1,398	1,615	1,638	1,656	1,720	1,780	1,812	1,769	1,775	1,686	1,674	19,956
2038	1,447	1,413	1,632	1,655	1,673	1,738	1,799	1,830	1,787	1,793	1,704	1,692	20,162
2039	1,456	1,422	1,642	1,666	1,684	1,749	1,810	1,842	1,798	1,805	1,714	1,702	20,290
2040	1,460	1,425	1,646	1,669	1,688	1,753	1,814	1,846	1,802	1,809	1,718	1,706	20,337
Uncompressed Volumes - Utility Procurement Customers (M decatherms)													
2021	301.6	280.2	341.9	328.5	321.0	332.1	336.8	386.9	392.8	394.7	394.9	415.4	4,226.8
2022	318.0	295.4	360.5	346.4	338.5	350.1	355.1	407.9	414.1	416.2	416.3	438.0	4,456.5
2023	335.3	311.5	380.1	365.2	356.9	369.2	374.4	430.1	436.6	438.8	438.9	461.8	4,698.7
2024	353.5	328.4	400.7	385.0	376.3	389.2	394.7	453.4	460.4	462.6	462.8	486.9	4,954.0
2025	372.7	346.3	422.5	406.0	396.7	410.4	416.2	478.1	485.4	487.8	487.9	513.3	5,223.2
2026	392.9	365.1	445.4	428.0	418.3	432.7	438.8	504.1	511.8	514.3	514.4	541.2	5,507.0
2027	414.3	384.9	469.6	451.3	441.0	456.2	462.7	531.5	539.6	542.2	542.4	570.6	5,806.2
2028	435.1	404.3	493.3	474.0	463.2	479.2	485.9	558.2	566.7	569.5	569.7	599.4	6,098.5

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2029	455.3	423.0	516.1	496.0	484.7	501.4	508.5	584.1	593.0	595.9	596.1	627.1	6,381.1
2030	474.6	440.9	538.0	517.0	505.2	522.6	530.0	608.8	618.1	621.1	621.3	653.7	6,651.3
2031	492.8	457.8	558.6	536.8	524.6	542.6	550.3	632.1	641.8	644.9	645.2	678.8	6,906.3
2032	509.7	473.6	577.8	555.2	542.6	561.3	569.2	653.8	663.8	667.1	667.3	702.1	7,143.4
2033	525.2	487.9	595.3	572.0	559.0	578.3	586.5	673.7	684.0	687.3	687.6	723.4	7,360.2
2034	539.0	500.8	611.0	587.1	573.8	593.5	601.9	691.4	702.0	705.4	705.7	742.4	7,554.0
2035	551.0	512.0	624.7	600.2	586.6	606.8	615.4	706.9	717.7	721.2	721.4	759.0	7,722.8
2036	561.1	521.4	636.1	611.2	597.3	617.9	626.6	719.8	730.8	734.4	734.7	772.9	7,864.4
2037	569.2	528.8	645.2	620.0	605.9	626.8	635.6	730.2	741.3	744.9	745.2	784.0	7,977.1
2038	575.1	534.3	651.9	626.4	612.2	633.2	642.2	737.7	749.0	752.6	752.9	792.1	8,059.6
2039	578.7	537.7	656.0	630.4	616.0	637.3	646.3	742.4	753.7	757.4	757.7	797.1	8,110.7
2040	580.1	538.9	657.6	631.9	617.5	638.8	647.8	744.1	755.5	759.2	759.4	799.0	8,129.7

**3. Source**

"Compressed Volumes - Public Use" 2021 data taken from Altametrics point of sale and dispensing database and converted from GGEs to MMCF assuming 132 CF per GGE. "Compressed Volumes - Utility Use" 2021 data taken from internal Timefill reports provided by Irene Fuhrmann (Billing Services) and Greg Teplow (Gas Acquisition). "Uncompressed Volumes - Customer Owned Gas" and "Uncompressed Volumes - Utility Procurement Customers" 2021 data taken from utility G-NGV billing data.

# **ENERGY EFFICIENCY**

## 2024 California Gas Report SoCalGas Energy Efficiency (EE) forecast

SoCalGas' EE forecast is based upon inputs from the 2024-2035 Decision Adopting energy efficiency goals for 2024-2040. utilizing program-level energy savings values forecasted for the 2024 program year. Savings estimates from SoCalGas' 2024 EE programs are grouped by the classifications identified in the 2024 CGR (Residential, Commercial, Industrial, Industrial Refinery). These savings estimates are further split between the core and non-core classifications based on the estimated historical core and non-core savings achievements in 2021-2023. EE program savings for 2021-2023 have been updated for this report.

Forecasted savings for the 2024-2040 period are based on the 2024 EE forecast scaled to the goals approved in the recent EE proceeding goals decision, D.23-08-005, which set EE goals through 2035. Forecasted savings beyond 2035 are held constant based on 2035 forecasted values. Cumulative savings reflect the lifecycle EE program achievements from forecasted program savings starting in 2024 and do not include lifecycle savings from prior program years. SoCalGas currently uses a 12-year lifecycle for cumulative savings calculations.

### 2024-2040 Goals

	2024-2040 Goals				
	EE Incentive Programs [1]	EE C&S Programs [1]	L/ESA Potential [2]	Total w/o C&S	Total w/ C&S
	Goal (Net, Mmtherm)	Goal (Net, Mmtherm)	Potential (Net, Mmtherm)	Total (Net, Mmtherm)	Total (Net, Mmtherm)
2022	19.0	19.0	1.44	19.0	38.0
2023	21.0	22.0	1.44	21.0	43.0
2024	10.8	25.6	1.44	10.8	36.4
2025	13.1	25.0	1.44	13.1	38.1
2026	13.3	16.1	1.44	13.3	29.4
2027	12.7	16.5	1.44	12.7	29.2
2028	12.1	15.4	1.44	12.1	27.5
2029	11.1	14.6	1.44	11.1	25.7
2030	10.8	14.2	1.44	10.8	25.0
2031	10.0	13.6	1.44	10.0	23.6
2032	10.5	12.6	1.44	10.5	23.1
2033	10.0	12.3	1.44	10.0	22.3
2034	9.6	11.9	1.44	9.6	21.5
2035	9.4	11.5	1.44	9.4	20.9
2036	9.4	11.5	1.44	9.4	20.9
2037	9.4	11.5	1.44	9.4	20.9
2038	9.4	11.5	1.44	9.4	20.9
2039	9.4	11.5	1.44	9.4	20.9
2040	9.4	11.5	1.44	9.4	20.9

[1] Therm savings figures based on EE program goals (excluding savings from Low Income/Energy Savings Assistance programs) in D.23-08-005 and 2023 Potential and Goals Study.

[2] Low income/Energy Savings Assistance program therm savings figures based Reference Scenario savings potential identified by CPUC's 2023 Energy Efficiency Potential and Goals Study.

**SoCalGas 2024-2035 Energy Efficiency Goals of D.23-08-005**

Year	Incentive Programs	Codes and Standards		
	TSB	GWh	MW	MMTherms
2024	164,432,152	-	-	25.6
2025	188,742,137	-	-	25.0
2026	203,872,384	-	-	16.1
2027	215,483,664	-	-	16.5
2028	227,299,260	-	-	15.4
2029	237,409,377	-	-	14.6
2030	208,882,271	-	-	14.2
2031	218,897,464	-	-	13.6
2032	237,492,445	-	-	12.6
2033	254,060,765	-	-	12.3
2034	269,208,582	-	-	11.9
2035	293,622,127	-	-	11.5



	Reported 2010	Reported 2011	Reported 2012	Reported 2013	Reported 2014	Reported 2015	Reported 2016	Reported 2017	Reported 2018	Reported 2019	Reported 2020	Reported 2021	Reported 2022	Reported 2023Q4	Forecast 2024	Forecast 2025	Forecast 2026	Forecast 2027	Forecast 2028	Forecast 2029	Forecast 2030	Forecast 2031	Forecast 2032	Forecast 2033	Forecast 2034	Forecast 2035	Forecast 2036	
<b>SoCalGas EE Program TOTAL</b>	<b>27,413,193</b>	<b>37,233,416</b>	<b>32,077,678</b>	<b>25,817,960</b>	<b>28,856,008</b>	<b>21,620,562</b>	<b>30,155,462</b>	<b>33,320,672</b>	<b>48,732,219</b>	<b>54,991,678</b>	<b>46,372,812</b>	<b>43,488,671</b>	<b>44,614,747</b>	<b>46,033,312</b>	<b>52,259,590</b>													
<b>PUC Goal</b>	<b>28,000,000</b>	<b>30,000,000</b>	<b>32,000,000</b>	<b>24,120,000</b>	<b>23,190,000</b>	<b>25,300,000</b>	<b>29,100,000</b>	<b>30,300,000</b>	<b>48,000,000</b>	<b>48,000,000</b>	<b>35,400,000</b>	<b>37,400,000</b>	<b>38,000,000</b>	<b>43,000,000</b>	<b>38,400,000</b>	<b>38,100,000</b>	<b>29,400,000</b>	<b>29,200,000</b>	<b>27,500,000</b>	<b>25,700,000</b>	<b>25,000,000</b>	<b>23,600,000</b>	<b>23,100,000</b>	<b>22,300,000</b>	<b>21,500,000</b>	<b>20,900,000</b>	<b>20,900,000</b>	
<b>Difference</b>	<b>(586,807)</b>	<b>7,233,416</b>	<b>(77,678)</b>	<b>1,697,960</b>	<b>5,666,008</b>	<b>(3,679,438)</b>	<b>1,055,462</b>	<b>3,020,672</b>	<b>2,732,219</b>	<b>6,991,678</b>	<b>10,972,812</b>	<b>6,088,671</b>	<b>6,614,747</b>	<b>3,033,312</b>	<b>15,859,590</b>													

	2010 Therms	2011 Therms	2012 Therms	2013 Therms	2014 Therms	2015 Therms	2016 Therms	2017 Therms	2018 Therms	2019 Therms	2020 Therms	2021 Therms	2022 Therms	2023 Therms	2024 Therms
<b>SoCalGas</b>	<b>9,072,258</b>	<b>12,564,473</b>	<b>8,445,190</b>	<b>8,173,595</b>	<b>7,931,223</b>	<b>7,037,522</b>	<b>14,912,118</b>	<b>20,853,175</b>	<b>35,227,014</b>	<b>41,194,305</b>	<b>32,770,342</b>	<b>33,073,453</b>	<b>29,816,617</b>	<b>31,929,909</b>	<b>30,158,150</b>
Core Residential	7,457,290	10,030,218	9,608,803	2,380,370	4,093,890	6,286,602	11,216,376	10,448,422	11,831,578	12,705,490	9,523,631	7,682,250	13,638,064	12,999,987	18,072,342
Core Commercial	2,268,570	3,051,276	2,923,078	2,803,233	2,457,183	1,928,820	1,236,543	611,937	456,371	487,431	346,005	669,019	245,732	109,813	631,346
Core Industrial	1,084,214	1,431,391	1,371,252	293,874	2,169,351	1,878,668	335,445	290,646	56,422	383,325	65,298	-	-	-	-
NonCore Commercial	2,483,166	3,339,913	3,199,588	4,184,881	6,592,493	2,495,191	1,562,769	1,013,868	1,093,600	130,374	460,317	1,807,371	914,334	993,513	2,147,752
NonCore Industrial retail	5,987,684	6,816,146	6,529,768	7,982,006	6,172,268	1,993,759	892,212	122,423	87,235	120,752	3,207,229	256,577	-	-	1,250,000
NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>27,413,193</b>	<b>37,233,416</b>	<b>32,077,678</b>	<b>25,817,960</b>	<b>28,856,008</b>	<b>21,620,562</b>	<b>30,155,462</b>	<b>33,320,672</b>	<b>48,732,219</b>	<b>54,991,678</b>	<b>46,372,812</b>	<b>43,488,671</b>	<b>44,614,747</b>	<b>46,033,312</b>	<b>52,259,590</b>

Proportionally scale it down or up to match PUC Goals for 2010 - 2014

	2010 Mtdth	2011 Mtdth	2012 Mtdth	2013 Mtdth	2014 Mtdth	2015 Mtdth	2016 Mtdth	2017 Mtdth	2018 Mtdth	2019 Mtdth	2020 Mtdth	2021 Mtdth	2022 Mtdth	2023 Mtdth	2024 Mtdth	2025 Mtdth	2026 Mtdth	2027 Mtdth	2028 Mtdth	2029 Mtdth	2030 Mtdth	2031 Mtdth	2032 Mtdth	2033 Mtdth	2034 Mtdth	2035 Mtdth	2036 Mtdth	
<b>ANNUAL NET SAVINGS</b>																												
Core Residential	927	1,012	842	764	592	704	1,491	2,083	3,523	4,118	3,277	3,307	2,982	3193	3016	2199	1697	1685	1587	1483	1443	1362	1333	1287	1241	1206	1206	
Core Commercial	762	808	959	222	329	629	1,122	1,045	1,163	1,271	952	788	1,364	1,300	1807	1,318	1,017	1,010	951	889	865	816	799	771	744	723	723	
Core Industrial	232	246	292	262	197	193	124	61	46	49	35	87	25	11	63	46	36	35	33	31	30	29	28	27	26	25	25	
NonCore Commercial	109	115	137	27	174	188	34	29	6	36	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NonCore Industrial retail	254	269	319	391	530	250	156	101	109	13	46	181	91	99	215	157	121	120	113	106	103	97	95	92	88	86	86	
NonCore Industrial refinery	516	549	651	746	456	199	89	12	7	12	321	26	-	-	125	91	70	70	66	61	60	56	55	53	51	50	50	
<b>Total</b>	<b>2,800</b>	<b>3,000</b>	<b>3,200</b>	<b>2,412</b>	<b>2,319</b>	<b>2,162</b>	<b>3,016</b>	<b>3,332</b>	<b>4,873</b>	<b>5,499</b>	<b>4,637</b>	<b>4,349</b>	<b>4,461</b>	<b>4,603</b>	<b>5,226</b>	<b>3,810</b>	<b>2,940</b>	<b>2,920</b>	<b>2,750</b>	<b>2,570</b>	<b>2,500</b>	<b>2,360</b>	<b>2,310</b>	<b>2,230</b>	<b>2,150</b>	<b>2,090</b>	<b>2,090</b>	

	2012 Mtdth	2013 Mtdth	2014 Mtdth	2015 Mtdth	2016 Mtdth	2017 Mtdth	2018 Mtdth	2019 Mtdth	2020 Mtdth	2021 Mtdth	2022 Mtdth	2023 Mtdth	2024 Mtdth	2025 Mtdth	2026 Mtdth	2027 Mtdth	2028 Mtdth	2029 Mtdth	2030 Mtdth	2031 Mtdth	2032 Mtdth	2033 Mtdth	2034 Mtdth	2035 Mtdth	2036 Mtdth			
<b>Cumulative Savings Mtdth</b>																												
Core Residential	3,016	5,215	6,311	8,596	10,153	11,666	13,169	14,471	15,804	17,091	18,332	19,538	20,744															
Core Commercial	1,807	3,125	4,142	5,151	6,102	6,991	7,856	8,672	9,471	10,242	10,985	11,708	12,431															
Core Industrial	63	109	145	180	213	244	274	303	331	358	384	409	434															
NonCore Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-															
NonCore Industrial retail	215	371	492	612	725	831	934	1,031	1,126	1,217	1,306	1,391	1,477															
NonCore Industrial refinery	125	216	286	356	422	484	543	600	655	708	760	810	860															
<b>Total Load Impacts</b>	<b>5,226</b>	<b>9,036</b>	<b>11,976</b>	<b>14,896</b>	<b>17,646</b>	<b>20,216</b>	<b>22,716</b>	<b>25,076</b>	<b>27,386</b>	<b>29,616</b>	<b>31,766</b>	<b>33,856</b>	<b>35,946</b>															

	2012 mmcf	2013 mmcf	2014 mmcf	2015 mmcf	2016 mmcf	2017 mmcf	2018 mmcf	2019 mmcf	2020 mmcf	2021 mmcf	2022 mmcf	2023 mmcf	2024 mmcf	2025 mmcf	2026 mmcf	2027 mmcf	2028 mmcf	2029 mmcf	2030 mmcf	2031 mmcf	2032 mmcf	2033 mmcf	2034 mmcf	2035 mmcf	2036 mmcf			
<b>Cumulative Savings MMCF</b>																												
Core Residential	2,923	5,054	6,699	8,332	9,870	11,308	12,706	14,026	15,318	16,566	17,768	18,937	20,106															
Core Commercial	1,752	3,029	4,014	4,993	5,915	6,776	7,614	8,405	9,180	9,927	10,648	11,348	12,049															
Core Industrial	61	106	140	174	207	237	266	294	321	347	372	396	421															
NonCore Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-															
NonCore Industrial regular	208	360	477	593	703	805	905	999	1,091	1,180	1,265	1,349	1,432															
NonCore Industrial refinery	121	209	278	345	409	469	527	581	635	687	736	785	833															
<b>Total Cumulative Load</b>	<b>5,065</b>	<b>8,758</b>	<b>11,608</b>	<b>14,438</b>	<b>17,104</b>	<b>19,595</b>	<b>22,018</b>	<b>24,305</b>	<b>26,544</b>	<b>28,766</b>	<b>30,790</b>	<b>32,616</b>	<b>34,541</b>															

Forecast Year =====>

1 2 3 4 5 6 7 8 9 10 11 12 13

	Reported 2010	Reported 2011	Reported 2012	Reported 2013	Reported 2014	Reported 2015	Reported 2016	Reported 2017	Reported 2018	Reported 2019	Reported 2020	Reported 2021	Reported 2022	Reported 2023Q4	Forecast 2024	Forecast 2025	Forecast 2026	Forecast 2027	Forecast 2028	Forecast 2029	Forecast 2030	Forecast 2031	Forecast 2032	Forecast 2033	Forecast 2034	Forecast 2035	Forecast 2036					
<b>SoCalGas EE Program TOTAL</b>	<b>27,413,193</b>	<b>37,233,416</b>	<b>32,077,678</b>	<b>25,817,960</b>	<b>28,856,008</b>	<b>21,620,562</b>	<b>10,465,569</b>	<b>8,851,583</b>	<b>19,380,337</b>	<b>22,040,272</b>	<b>28,000,725</b>	<b>24,088,915</b>	<b>25,569,138</b>	<b>23,909,002</b>	<b>29,280,313</b>	13,100,000	13,300,000	12,700,000	12,100,000	11,100,000	10,800,000	10,000,000	10,500,000	10,000,000	9,600,000	9,400,000	9,400,000					
<b>PUC Goal</b>	<b>28,000,000</b>	<b>30,000,000</b>	<b>32,000,000</b>	<b>24,120,000</b>	<b>23,190,000</b>	<b>25,300,000</b>	<b>17,300,000</b>	<b>18,100,000</b>	<b>20,000,000</b>	<b>22,000,000</b>	<b>14,400,000</b>	<b>15,400,000</b>	<b>19,000,000</b>	<b>21,000,000</b>	<b>10,800,000</b>																	
<b>Difference</b>	<b>(586,807)</b>	<b>7,233,416</b>	<b>77,678</b>	<b>1,697,960</b>	<b>5,666,008</b>	<b>(3,679,438)</b>	<b>(6,834,431)</b>	<b>(9,248,417)</b>	<b>(619,663)</b>	<b>46,272</b>	<b>13,600,725</b>	<b>8,688,915</b>	<b>6,569,138</b>	<b>2,909,002</b>	<b>18,480,313</b>																	
<b>SoCalGas</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>																	
	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms	therms																	
Core Residential	9,072,268	12,564,473	8,445,190	8,173,595	7,371,223	7,037,522	3,980,507	4,296,916	13,457,604	16,576,010	18,622,972	17,811,931	14,794,910	17,080,062	14,636,714																	
Core Commercial	7,457,290	10,030,218	9,608,803	2,380,370	4,093,890	6,286,602	2,458,094	2,515,592	4,249,106	4,362,380	5,298,914	3,544,017	9,614,162	5,725,614	10,614,502																	
Core Industrial	2,268,570	3,051,276	2,923,078	2,803,233	2,457,183	1,928,820	1,236,543	611,937	456,371	497,431	346,006	669,019	245,732	109,813	631,346																	
NonCore Commercial	1,064,214	1,431,601	1,371,252	293,674	2,169,951	1,879,668	335,445	290,846	56,422	363,325	65,288	-	-	-	-																	
NonCore Industrial retail	2,483,166	3,339,913	3,199,588	4,184,881	6,592,493	2,495,191	1,562,769	1,013,868	1,093,600	130,374	460,317	1,807,371	914,334	993,513	2,147,752																	
NonCore Industrial refinery	5,987,684	6,816,146	6,529,788	7,992,006	6,172,268	1,993,759	892,212	122,423	67,235	120,752	3,207,229	256,577	-	-	1,250,000																	
<b>Total</b>	<b>27,413,193</b>	<b>37,233,416</b>	<b>32,077,678</b>	<b>25,817,960</b>	<b>28,856,008</b>	<b>21,620,562</b>	<b>10,465,569</b>	<b>8,851,583</b>	<b>19,380,337</b>	<b>22,040,272</b>	<b>28,000,725</b>	<b>24,088,915</b>	<b>25,569,138</b>	<b>23,909,002</b>	<b>29,280,313</b>																	
<b>Proportionally scale it down or up to match PUC Goals for 2010 - 2014</b>																																
<b>ANNUAL NET SAVINGS</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>					
	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth				
Core Residential	927	1,012	842	764	592	704	398	430	1,346	1,658	1,862	1,781	1,479	1,708	1,464	655	665	635	605	555	540	500	525	500	480	470	470					
Core Commercial	762	808	959	222	329	629	246	252	436	530	354	961	573	1,061	1,061	475	482	460	439	402	392	363	381	363	348	341	341					
Core Industrial	232	246	292	262	197	193	124	61	46	49	35	67	25	11	63	28	29	27	26	24	23	22	23	22	21	20	20					
NonCore Commercial	109	115	137	27	174	188	34	29	6	36	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
NonCore Industrial retail	254	289	319	391	530	250	156	101	109	13	46	181	91	99	215	96	98	93	89	81	79	73	77	73	70	69	69					
NonCore Industrial refinery	518	549	651	746	496	199	89	12	7	12	321	26	-	-	125	56	57	54	52	47	46	43	45	43	41	40	40					
<b>Total</b>	<b>2,800</b>	<b>3,000</b>	<b>3,200</b>	<b>2,412</b>	<b>2,319</b>	<b>2,162</b>	<b>1,047</b>	<b>885</b>	<b>1,938</b>	<b>2,204</b>	<b>2,800</b>	<b>2,409</b>	<b>2,557</b>	<b>2,391</b>	<b>2,928</b>	<b>1,310</b>	<b>1,330</b>	<b>1,270</b>	<b>1,210</b>	<b>1,110</b>	<b>1,080</b>	<b>1,000</b>	<b>1,050</b>	<b>1,000</b>	<b>960</b>	<b>940</b>	<b>940</b>					
<b>Cumulative Savings Mdth</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>							
	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth	Mdth						
Core Residential	1,464	2,119	2,783	3,418	4,023	4,578	5,118	5,618	6,143	6,842	7,122	7,562	8,062																			
Core Commercial	1,061	1,536	2,018	2,479	2,918	3,320	3,711	4,074	4,455	4,817	5,165	5,506	5,847																			
Core Industrial	63	91	120	147	174	197	221	242	265	287	307	327	348																			
NonCore Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-																			
NonCore Industrial regular	215	311	408	502	590	672	751	824	901	975	1,045	1,114	1,183																			
NonCore Industrial refinery	125	181	238	292	344	391	437	480	525	567	608	648	689																			
<b>Total Load Impacts</b>	<b>2,928</b>	<b>4,238</b>	<b>5,568</b>	<b>6,838</b>	<b>8,048</b>	<b>9,158</b>	<b>10,238</b>	<b>11,238</b>	<b>12,288</b>	<b>13,288</b>	<b>14,248</b>	<b>15,188</b>	<b>16,128</b>																			
<b>Cumulative Savings MMCF</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>							
	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf	mmcf						
Core Residential	1,419	2,053	2,698	3,313	3,899	4,437	4,961	5,445	5,954	6,438	6,903	7,359	7,814																			
Core Commercial	1,029	1,489	1,956	2,403	2,828	3,218	3,597	3,949	4,318	4,669	5,006	5,337	5,667																			
Core Industrial	61	89	116	143	168	191	214	235	257	278	298	317	337																			
NonCore Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-																			
NonCore Industrial regular	208	301	396	486	572	651	728	799	874	945	1,013	1,080	1,147																			
NonCore Industrial refinery	121	175	230	283	333	379	424	465	503	539	576	607	643																			
<b>Total Cumulative Load</b>	<b>2,839</b>	<b>4,108</b>	<b>5,397</b>	<b>6,628</b>	<b>7,801</b>	<b>8,877</b>	<b>9,923</b>	<b>10,893</b>	<b>11,810</b>	<b>12,800</b>	<b>13,810</b>	<b>14,721</b>	<b>15,632</b>																			
Forecast Year =====>	1	2	3	4	5	6	7	8	9	10	11	12	13																			

	Reported 2010	Reported 2011	Reported 2012	Reported 2013	Reported 2014	Reported 2015	Reported 2016	Reported 2017	Reported 2018	Reported 2019	Reported 2020	Reported 2021	Reported 2022	Reported 2023Q4	Forecast 2024	Forecast 2025	Forecast 2026	Forecast 2027	Forecast 2028	Forecast 2029	Forecast 2030	Forecast 2031	Forecast 2032	Forecast 2033	Forecast 2034	Forecast 2035	Forecast 2036				
<b>SoCalGas EE Program TOTAL</b>	<b>27,413,193</b>	<b>37,233,416</b>	<b>32,077,678</b>	<b>25,817,960</b>	<b>28,856,008</b>	<b>21,620,562</b>	<b>19,689,893</b>	<b>24,469,089</b>	<b>29,351,882</b>	<b>32,951,406</b>	<b>18,372,087</b>	<b>19,399,755</b>	<b>19,045,610</b>	<b>22,124,310</b>	<b>22,979,277</b>																
<b>PUC Goal</b>	<b>28,000,000</b>	<b>30,000,000</b>	<b>32,000,000</b>	<b>24,120,000</b>	<b>23,190,000</b>	<b>25,300,000</b>	<b>11,700,000</b>	<b>18,100,000</b>	<b>26,000,000</b>	<b>26,000,000</b>	<b>21,000,000</b>	<b>22,000,000</b>	<b>19,000,000</b>	<b>22,000,000</b>	<b>25,600,000</b>	<b>25,000,000</b>	<b>16,100,000</b>	<b>16,500,000</b>	<b>15,400,000</b>	<b>14,600,000</b>	<b>14,200,000</b>	<b>13,600,000</b>	<b>12,600,000</b>	<b>12,300,000</b>	<b>11,900,000</b>	<b>11,500,000</b>	<b>11,500,000</b>				
<b>Difference</b>	<b>(586,807)</b>	<b>7,233,416</b>	<b>77,678</b>	<b>1,697,960</b>	<b>5,666,008</b>	<b>(3,679,438)</b>	<b>7,989,893</b>	<b>6,369,089</b>	<b>3,351,882</b>	<b>6,951,406</b>	<b>(1,954,399)</b>	<b>(2,604,245)</b>	<b>45,610</b>	<b>124,310</b>	<b>(2,620,723)</b>																
<b>SoCalGas</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>																
Core Residential	9,072,268	12,564,473	8,445,190	8,173,595	7,371,223	7,037,522	10,931,611	16,536,258	21,769,410	24,605,296	14,147,370	15,261,522	15,021,707	14,849,937	15,521,437																
Core Commercial	7,457,290	10,030,218	9,608,803	2,380,370	4,093,890	6,286,602	8,758,283	7,932,831	7,582,472	8,343,110	4,224,717	4,138,233	4,023,902	7,274,373	7,457,840																
Core Industrial	2,268,570	3,051,276	2,923,078	2,803,233	2,457,183	1,928,820	-	-	-	-	-	-	-	-	-																
NonCore Commercial	1,064,214	1,431,591	1,371,252	293,874	2,168,951	1,875,668	-	-	-	-	-	-	-	-	-																
NonCore Industrial retail	2,483,166	3,339,913	3,199,588	4,184,881	6,592,493	2,495,191	-	-	-	-	-	-	-	-	-																
NonCore Industrial refinery	5,987,684	6,816,146	6,529,788	7,992,006	6,172,268	1,993,759	-	-	-	-	-	-	-	-	-																
<b>Total</b>	<b>27,413,193</b>	<b>37,233,416</b>	<b>32,077,678</b>	<b>25,817,960</b>	<b>28,856,008</b>	<b>21,620,562</b>	<b>19,689,893</b>	<b>24,469,089</b>	<b>29,351,882</b>	<b>32,951,406</b>	<b>18,372,087</b>	<b>19,399,755</b>	<b>19,045,610</b>	<b>22,124,310</b>	<b>22,979,277</b>																
<b>Proportionally scale it down or up to match PUC Goals for 2010 - 2014</b>																															
<b>ANNUAL NET SAVINGS</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>				
Core Residential	927	1,012	842	764	592	704	1,093	1,654	2,177	2,461	1,415	1,526	1,502	1,485	1,552	1,689	1,087	1,114	1,040	986	959	919	851	831	804	777	777				
Core Commercial	762	808	959	222	329	629	876	793	758	834	422	414	402	727	746	811	523	536	500	474	461	441	409	399	386	373	373				
Core Industrial	232	246	292	262	197	193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
NonCore Commercial	109	115	137	27	174	188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NonCore Industrial retail	254	289	319	391	530	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NonCore Industrial refinery	518	549	651	746	496	199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Total</b>	<b>2,800</b>	<b>3,000</b>	<b>3,200</b>	<b>2,412</b>	<b>2,319</b>	<b>2,162</b>	<b>1,969</b>	<b>2,447</b>	<b>2,935</b>	<b>3,295</b>	<b>1,837</b>	<b>1,940</b>	<b>1,905</b>	<b>2,212</b>	<b>2,298</b>	<b>2,500</b>	<b>1,610</b>	<b>1,650</b>	<b>1,540</b>	<b>1,460</b>	<b>1,420</b>	<b>1,360</b>	<b>1,260</b>	<b>1,230</b>	<b>1,190</b>	<b>1,150</b>	<b>1,150</b>				
<b>Cumulative Savings Mtdh</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>						
Core Residential	1,352	3,241	4,328	5,443	6,483	7,469	8,428	9,347	10,198	11,029	11,853	12,609	13,386																		
Core Commercial	746	1,557	2,080	2,615	3,115	3,589	4,050	4,491	4,900	5,299	5,685	6,059	6,432																		
Core Industrial	-	-	-	-	-	-	-	-	-	-	-	-	-																		
NonCore Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-																		
NonCore Industrial regular	-	-	-	-	-	-	-	-	-	-	-	-	-																		
NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-																		
<b>Total Load Impacts</b>	<b>2,298</b>	<b>4,798</b>	<b>6,408</b>	<b>8,058</b>	<b>9,598</b>	<b>11,058</b>	<b>12,478</b>	<b>13,838</b>	<b>15,098</b>	<b>16,328</b>	<b>17,518</b>	<b>18,668</b>	<b>19,818</b>																		
<b>Cumulative Savings MMCF</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>2036</b>						
Core Residential	1,504	3,141	4,195	5,276	6,284	7,240	8,169	9,060	9,885	10,690	11,469	12,222	12,975																		
Core Commercial	723	1,509	2,016	2,535	3,019	3,479	3,925	4,353	4,749	5,136	5,511	5,872	6,234																		
Core Industrial	-	-	-	-	-	-	-	-	-	-	-	-	-																		
NonCore Commercial	-	-	-	-	-	-	-	-	-	-	-	-	-																		
NonCore Industrial regular	-	-	-	-	-	-	-	-	-	-	-	-	-																		
NonCore Industrial refinery	-	-	-	-	-	-	-	-	-	-	-	-	-																		
<b>Total Cumulative Load</b>	<b>2,227</b>	<b>4,651</b>	<b>6,211</b>	<b>7,810</b>	<b>9,303</b>	<b>10,718</b>	<b>12,095</b>	<b>13,413</b>	<b>14,634</b>	<b>15,826</b>	<b>16,980</b>	<b>18,094</b>	<b>19,209</b>																		
Forecast Year =====>	1	2	3	4	5	6	7	8	9	10	11	12	13																		

# **EXCHANGE**

## Exchange Gas Demand

The Master Exchange Agreement (MEA) was made and entered into on the March 1<sup>st</sup>, 1990, by and between Pacific Gas and Electric Company (PG&E) and Southern California Gas Company (SoCalGas). The MEA sets the terms and conditions of any delivery or redelivery of natural gas for standby or for ongoing deliveries.

For the purposes of the forecast, the monthly exchange volumes for SoCalGas deliveries to PG&E and PG&E deliveries to SoCalGas at various exchange taps were tracked. The historical exchange deliveries formed the basis for the exchange forecast.

The forecasts of Exchange volumes are:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2023	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2024	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2025	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2026	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2027	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2028	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2029	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2030	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2031	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2032	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2033	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2034	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2035	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2036	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2037	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2038	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2039	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>
2040	65.0	57.0	47.3	31.9	24.3	22.6	19.2	21.1	21.0	24.3	42.3	60.1	<b>435.9</b>

**ENHANCED OIL RECOVERY – STEAMING AND  
COGENERATION USE**

**Enhanced Oil Recovery**

**2024 CALIFORNIA GAS REPORT WORKPAPERS**

Forecasted demand for 2024 to 2040 assumes that, for both Steaming & Cogen use, EOR is going to remain volatile but will gradually decrease. Forecasted break out by service levels (Medium Pressure Distribution (MPD), High Pressure Distribution (HPD), and Transmission Level Service (TLS) was determined by using the service level distributions from 2023 actuals.

Southern California Gas Company EOR Workpaper		MDTH/Year				MDTH/Year				Total			
		Steaming				Cogen				Total			
		MPD	HPD	TLS	Total	MPD	HPD	TLS	Total	MPD	HPD	TLS	Total
Units	Year												
Mdth/year	2022 Actual	0	7,469	1,839	9,308	0	457	1,307	1,764	0	7,926	3,146	11,072
Mdth/year	2023 Actual	0	7,584	1,868	9,452	0	65	185	250	0	7,649	2,053	9,702
Mdth/year	2024 forecast	0	7,375	1,816	9,192	0	93	265	358	0	7,468	2,081	9,550
Mdth/year	2025 forecast	0	7,173	1,767	8,939	0	133	379	511	0	7,305	2,145	9,451
Mdth/year	2026 forecast	0	6,976	1,718	8,694	0	190	541	731	0	7,165	2,259	9,425
Mdth/year	2027 forecast	0	6,784	1,671	8,455	0	271	774	1,044	0	7,055	2,444	9,499
Mdth/year	2028 forecast	0	6,598	1,625	8,223	0	387	1,105	1,492	0	6,985	2,730	9,715
Mdth/year	2029 forecast	0	6,417	1,580	7,997	0	397	1,133	1,530	0	6,813	2,713	9,527
Mdth/year	2030 forecast	0	6,240	1,537	7,777	0	407	1,161	1,568	0	6,647	2,698	9,345
Mdth/year	2031 forecast	0	6,069	1,495	7,564	0	417	1,190	1,607	0	6,486	2,685	9,171
Mdth/year	2032 forecast	0	5,902	1,454	7,356	0	427	1,220	1,647	0	6,329	2,674	9,003
Mdth/year	2033 forecast	0	5,740	1,414	7,154	0	438	1,251	1,688	0	6,178	2,664	8,842
Mdth/year	2034 forecast	0	5,582	1,375	6,957	0	449	1,282	1,731	0	6,031	2,657	8,688
Mdth/year	2035 forecast	0	5,429	1,337	6,766	0	460	1,314	1,774	0	5,889	2,651	8,540
Mdth/year	2036 forecast	0	5,280	1,300	6,580	0	472	1,347	1,818	0	5,751	2,647	8,399
Mdth/year	2037 forecast	0	5,135	1,265	6,400	0	483	1,380	1,864	0	5,618	2,645	8,263
Mdth/year	2038 forecast	0	4,994	1,230	6,224	0	495	1,415	1,910	0	5,489	2,645	8,134
Mdth/year	2039 forecast	0	4,857	1,196	6,053	0	508	1,450	1,958	0	5,364	2,646	8,011
Mdth/year	2040 forecast	0	4,723	1,163	5,887	0	520	1,487	2,007	0	5,244	2,650	7,894



## **REFINERIES**

# **Refinery Non-Cogeneration and Cogeneration Gas Demand**

## **INTRODUCTION**

Gas demand for refineries is developed from a base econometric forecast for both non-cogeneration (rate class G-30) load and cogeneration (rate class G-50) load. The separation into G-30 and G-50 categories is based on the historical 2023 average monthly proportions of each rate class.

For the non-cogeneration load component, there is an “out-of-model” adjustment to reflect expected implementation of mandated Energy Efficiency for this customer segment.

## **BASE FORECAST EQUATION**

The base econometric forecast is generated from an equation that uses the natural logarithm of average daily monthly refinery gas consumption as the dependent variable. The key explanatory variable is the natural logarithm of the monthly ratio of burner-tip natural gas rates (e.g., transportation rate + commodity price) relative to the propane prices. The second component of the forecast equation is a constant term.

The base forecast equation is shown below:

$$\text{LN(Ref\_MDth/d)} = 5.7087531 + (-0.0189667) \times \text{LN(G/P)}$$

where

G = Gas burner-tip price, and  
P = Propane price.

The parameters of this equation were estimated from monthly data for Jan-2010 through Dec-2023.

## **EXAMPLE OF FORECAST CALCULATIONS**

The refinery gas demand in a particular month is calculated as:

$$\text{Ref\_MDth/mo} = (\text{\#days in month}) \times \text{EXP}[\text{LN(Ref\_MDth/d)}].$$

For example, the calculation of total refinery gas demand for August 2024 is as follows:

$$\begin{aligned} \text{LN}[\text{Ref\_MDth/d}] &= 5.7087531 + (-0.0189667) \times \text{LN}(7.74521 / 15.81970) \\ \text{LN}[\text{Ref\_MDth/d}] &= 5.7222988 \end{aligned}$$

$$\begin{aligned} \text{Ref\_MDth} &= (31 \text{ days}) \times (\text{EXP}[5.7222988]) \\ &= (31 \text{ days}) \times (305.60664 \text{ MDth/d}) \\ &= (9,473.8 \text{ MDth}) \end{aligned}$$

This total refinery gas demand was “split” between G-30 and G-50 load using the 2023 monthly proportions that the G-30 load represented relative to the total refinery load. The table below provides these proportions.

Month	2023 G-30 % of total Refinery
Jan	82.096%
Feb	82.162%
Mar	80.402%
Apr	78.906%
May	80.501%
Jun	78.208%
Jul	78.389%
Aug	79.761%
Sep	82.291%
Oct	75.540%
Nov	81.480%
Dec	82.357%

Based on the August 2026 example above, the total refinery gas demand is split into G-30 and G-50 values:

$$\begin{aligned} \text{Ref\_G-30} &= (7,556.4 \text{ MDth}) = (9,473.8 \text{ MDth}) \times (79.761\%), \text{ and} \\ \text{Ref\_G-50} &= (1,917.4 \text{ MDth}) = (9,473.8 \text{ MDth}) \times (20.239\%) \end{aligned}$$

The table below shows the entire base refinery gas demand forecast and the split into G-30 and G-50 rate class component loads.

### Base Forecast of Refinery Gas Demand (2023-2040)

Month	Ref G30 %	#Days per month	Month #	Total Ref Mdth	Total Ref Mdth/Day	Ln(Mdth_D)	ln(G/P)	Burner_tip_Gas (G) \$/dth	Propane (P) \$/dth
Jan-23	82.10%	31	1	9,768.8	315.1	5.7530	0.6875	35.5179	17.8598
Feb-23	82.16%	28	2	9,039.4	322.8	5.7771	-0.4414	12.1312	18.8620
Mar-23	80.40%	31	3	9,929.4	320.3	5.7693	-0.8799	6.9875	16.8454
Apr-23	78.91%	30	4	10,010.3	333.7	5.8102	-1.0201	5.3422	14.8167
May-23	80.50%	31	5	10,142.5	327.2	5.7905	-1.1584	4.8458	15.4326
Jun-23	78.21%	30	6	8,985.2	299.5	5.7021	-1.2570	5.0298	17.6786
Jul-23	78.39%	31	7	9,621.5	310.4	5.7378	-1.2080	5.7081	19.1035
Aug-23	79.76%	31	8	9,711.0	313.3	5.7470	-1.0651	6.8511	19.8764
Sep-23	82.29%	30	9	8,755.4	291.8	5.6762	-1.3071	5.8687	21.6877
Oct-23	75.54%	31	10	7,967.3	257.0	5.5491	-1.6452	4.7936	24.8394
Nov-23	81.48%	30	11	8,889.4	296.3	5.6914	-1.1144	7.7622	23.6560
Dec-23	82.36%	31	12	9,995.7	322.4	5.7759	-1.2293	6.5873	22.5209
Jan-24	82.10%	31	1	9,430.7	304.2	5.7177	-0.4739	10.2279	16.4288
Feb-24	82.16%	29	2	8,848.2	305.1	5.7207	-0.6284	9.2554	17.3508
Mar-24	80.40%	31	3	9,500.0	306.5	5.7251	-0.8598	6.5585	15.4957
Apr-24	78.91%	30	4	9,200.4	306.7	5.7258	-0.8988	5.5480	13.6296
May-24	80.50%	31	5	9,522.2	307.2	5.7274	-0.9827	5.3136	14.1961
Jun-24	78.21%	30	6	9,223.2	307.4	5.7283	-1.0293	5.8096	16.2622
Jul-24	78.39%	31	7	9,509.6	306.8	5.7261	-0.9130	7.0527	17.5729
Aug-24	79.76%	31	8	9,514.9	306.9	5.7266	-0.9423	7.1255	18.2838
Sep-24	82.29%	30	9	9,224.8	307.5	5.7285	-1.0389	7.0589	19.9500
Oct-24	75.54%	31	10	9,587.0	309.3	5.7342	-1.3402	5.9820	22.8492
Nov-24	81.48%	30	11	9,240.6	308.0	5.7302	-1.1288	7.0375	21.7607
Dec-24	82.36%	31	12	9,495.5	306.3	5.7246	-0.8346	8.9917	20.7165
Jan-25	82.10%	31	1	9,468.5	305.4	5.7217	-0.6849	7.4764	14.8294
Feb-25	82.16%	28	2	8,582.9	306.5	5.7253	-0.8734	6.5393	15.6616
Mar-25	80.40%	31	3	9,488.1	306.1	5.7238	-0.7939	6.3232	13.9871
Apr-25	78.91%	30	4	9,167.0	305.6	5.7222	-0.7074	6.0643	12.3027
May-25	80.50%	31	5	9,498.8	306.4	5.7249	-0.8533	5.4590	12.8140
Jun-25	78.21%	30	6	9,217.6	307.3	5.7277	-0.9973	5.4148	14.6790
Jul-25	78.39%	31	7	9,513.9	306.9	5.7265	-0.9370	6.2151	15.8621
Aug-25	79.76%	31	8	9,518.6	307.1	5.7270	-0.9631	6.2993	16.5038
Sep-25	82.29%	30	9	9,212.6	307.1	5.7271	-0.9691	6.8325	18.0078
Oct-25	75.54%	31	10	9,546.4	307.9	5.7299	-1.1164	6.7537	20.6248
Nov-25	81.48%	30	11	9,218.9	307.3	5.7278	-1.0050	7.1896	19.6422
Dec-25	82.36%	31	12	9,492.3	306.2	5.7243	-0.8173	8.2584	18.6997
Jan-26	82.10%	31	1	9,411.5	303.6	5.7157	-0.3661	9.8569	14.2147
Feb-26	82.16%	28	2	8,492.3	303.3	5.7147	-0.3139	10.9683	15.0124
Mar-26	80.40%	31	3	9,400.9	303.3	5.7146	-0.3067	9.8664	13.4073
Apr-26	78.91%	30	4	9,103.4	303.4	5.7152	-0.3404	8.3905	11.7927
May-26	80.50%	31	5	9,419.6	303.9	5.7166	-0.4117	8.1379	12.2829
Jun-26	78.21%	30	6	9,154.5	305.2	5.7208	-0.6356	7.4518	14.0705
Jul-26	78.39%	31	7	9,465.0	305.3	5.7214	-0.6652	7.8181	15.2046
Aug-26	79.76%	31	8	9,473.8	305.6	5.7223	-0.7142	7.7452	15.8197
Sep-26	82.29%	30	9	9,187.3	306.2	5.7244	-0.8238	7.5740	17.2613
Oct-26	75.54%	31	10	9,516.9	307.0	5.7268	-0.9536	7.6186	19.7698
Nov-26	81.48%	30	11	9,187.9	306.3	5.7244	-0.8271	8.2339	18.8279
Dec-26	82.36%	31	12	9,471.6	305.5	5.7221	-0.7021	8.8825	17.9245
Jan-27	82.10%	31	1	9,418.9	303.8	5.7165	-0.4079	9.3333	14.0347
Feb-27	82.16%	28	2	8,498.5	303.5	5.7154	-0.3526	10.4184	14.8223
Mar-27	80.40%	31	3	9,411.1	303.6	5.7157	-0.3639	9.1996	13.2376
Apr-27	78.91%	30	4	9,115.8	303.9	5.7166	-0.4120	7.7119	11.6434
May-27	80.50%	31	5	9,438.7	304.5	5.7186	-0.5183	7.2219	12.1273
Jun-27	78.21%	30	6	9,168.1	305.6	5.7223	-0.7135	6.8059	13.8923
Jul-27	78.39%	31	7	9,479.5	305.8	5.7229	-0.7456	7.1224	15.0121
Aug-27	79.76%	31	8	9,485.2	306.0	5.7235	-0.7776	7.1773	15.6194
Sep-27	82.29%	30	9	9,198.6	306.6	5.7256	-0.8887	7.0081	17.0428
Oct-27	75.54%	31	10	9,532.0	307.5	5.7284	-1.0372	6.9185	19.5195
Nov-27	81.48%	30	11	9,199.7	306.7	5.7257	-0.8951	7.5948	18.5895
Dec-27	82.36%	31	12	9,471.9	305.5	5.7221	-0.7038	8.7546	17.6975

### Base Forecast of Refinery Gas Demand (2023-2040)

Month	Ref G30 %	#Days per month	Month #	Total Ref Mdth	Total Ref Mdth/Day	Ln(Mdth_D)	ln(G/P)	Burner_tip_Gas (G) \$/dth	Propane (P) \$/dth
Jan-28	82.10%	31	1	9,409.6	303.5	5.7155	-0.3556	9.9899	14.2562
Feb-28	82.16%	29	2	8,826.7	304.4	5.7182	-0.5003	9.1298	15.0563
Mar-28	80.40%	31	3	9,435.6	304.4	5.7183	-0.5012	8.1459	13.4465
Apr-28	78.91%	30	4	9,124.1	304.1	5.7175	-0.4598	7.4677	11.8272
May-28	80.50%	31	5	9,435.3	304.4	5.7182	-0.4993	7.4771	12.3188
Jun-28	78.21%	30	6	9,151.8	305.1	5.7205	-0.6200	7.5910	14.1116
Jul-28	78.39%	31	7	9,463.6	305.3	5.7212	-0.6575	7.9016	15.2491
Aug-28	79.76%	31	8	9,468.0	305.4	5.7217	-0.6821	8.0208	15.8660
Sep-28	82.29%	30	9	9,181.4	306.0	5.7237	-0.7899	7.8576	17.3118
Oct-28	75.54%	31	10	9,514.0	306.9	5.7265	-0.9372	7.7669	19.8276
Nov-28	81.48%	30	11	9,186.7	306.2	5.7243	-0.8205	8.3125	18.8830
Dec-28	82.36%	31	12	9,468.1	305.4	5.7217	-0.6825	9.0846	17.9769
Jan-29	82.10%	31	1	9,438.4	304.5	5.7186	-0.5166	8.7651	14.6936
Feb-29	82.16%	28	2	8,542.5	305.1	5.7206	-0.6249	8.3069	15.5182
Mar-29	80.40%	31	3	9,446.1	304.7	5.7194	-0.5598	7.9179	13.8591
Apr-29	78.91%	30	4	9,135.9	304.5	5.7188	-0.5279	7.1902	12.1900
May-29	80.50%	31	5	9,447.6	304.8	5.7195	-0.5683	7.1922	12.6967
Jun-29	78.21%	30	6	9,164.2	305.5	5.7219	-0.6913	7.2859	14.5446
Jul-29	78.39%	31	7	9,478.7	305.8	5.7228	-0.7414	7.4882	15.7169
Aug-29	79.76%	31	8	9,481.6	305.9	5.7231	-0.7573	7.6681	16.3527
Sep-29	82.29%	30	9	9,195.1	306.5	5.7252	-0.8685	7.4865	17.8429
Oct-29	75.54%	31	10	9,528.4	307.4	5.7280	-1.0169	7.3920	20.4359
Nov-29	81.48%	30	11	9,197.9	306.6	5.7255	-0.8844	8.0368	19.4623
Dec-29	82.36%	31	12	9,480.9	305.8	5.7230	-0.7536	8.7208	18.5284
Jan-30	82.10%	31	1	9,444.0	304.6	5.7191	-0.5478	8.8642	15.3300
Feb-30	82.16%	28	2	8,545.7	305.2	5.7210	-0.6448	8.4959	16.1903
Mar-30	80.40%	31	3	9,447.1	304.7	5.7195	-0.5655	8.2136	14.4593
Apr-30	78.91%	30	4	9,147.5	304.9	5.7200	-0.5951	7.0140	12.7180
May-30	80.50%	31	5	9,472.5	305.6	5.7222	-0.7067	6.5342	13.2466
Jun-30	78.21%	30	6	9,182.4	306.1	5.7238	-0.7959	6.8464	15.1745
Jul-30	78.39%	31	7	9,498.0	306.4	5.7249	-0.8489	7.0166	16.3976
Aug-30	79.76%	31	8	9,501.4	306.5	5.7252	-0.8673	7.1674	17.0609
Sep-30	82.29%	30	9	9,215.7	307.2	5.7275	-0.9868	6.9396	18.6157
Oct-30	75.54%	31	10	9,549.6	308.1	5.7303	-1.1340	6.8596	21.3210
Nov-30	81.48%	30	11	9,215.6	307.2	5.7275	-0.9859	7.5759	20.3052
Dec-30	82.36%	31	12	9,496.7	306.3	5.7247	-0.8413	8.3348	19.3309
Jan-31	82.10%	31	1	9,464.2	305.3	5.7213	-0.6608	8.3065	16.0845
Feb-31	82.16%	28	2	8,569.0	306.0	5.7237	-0.7881	7.7239	16.9872
Mar-31	80.40%	31	3	9,476.0	305.7	5.7225	-0.7266	7.3360	15.1710
Apr-31	78.91%	30	4	9,164.4	305.5	5.7219	-0.6921	6.6788	13.3440
May-31	80.50%	31	5	9,477.4	305.7	5.7227	-0.7344	6.6684	13.8986
Jun-31	78.21%	30	6	9,188.6	306.3	5.7245	-0.8314	6.9327	15.9214
Jul-31	78.39%	31	7	9,503.5	306.6	5.7254	-0.8793	7.1416	17.2047
Aug-31	79.76%	31	8	9,506.9	306.7	5.7258	-0.8982	7.2908	17.9007
Sep-31	82.29%	30	9	9,222.0	307.4	5.7282	-1.0229	7.0225	19.5320
Oct-31	75.54%	31	10	9,556.7	308.3	5.7310	-1.1735	6.9187	22.3704
Nov-31	81.48%	30	11	9,227.6	307.6	5.7288	-1.0546	7.4212	21.3046
Dec-31	82.36%	31	12	9,510.3	306.8	5.7261	-0.9170	8.1072	20.2824
Jan-32	82.10%	31	1	9,476.4	305.7	5.7226	-0.7285	8.1967	16.9833
Feb-32	82.16%	29	2	8,881.3	306.3	5.7244	-0.8252	7.8589	17.9363
Mar-32	80.40%	31	3	9,481.9	305.9	5.7232	-0.7592	7.4972	16.0187
Apr-32	78.91%	30	4	9,167.2	305.6	5.7222	-0.7085	6.9372	14.0896
May-32	80.50%	31	5	9,482.4	305.9	5.7232	-0.7622	6.8483	14.6752
Jun-32	78.21%	30	6	9,195.2	306.5	5.7252	-0.8690	7.0498	16.8110
Jul-32	78.39%	31	7	9,511.2	306.8	5.7262	-0.9219	7.2256	18.1660
Aug-32	79.76%	31	8	9,513.6	306.9	5.7265	-0.9350	7.4203	18.9009
Sep-32	82.29%	30	9	9,228.5	307.6	5.7289	-1.0598	7.1469	20.6233
Oct-32	75.54%	31	10	9,561.9	308.4	5.7316	-1.2024	7.0970	23.6204
Nov-32	81.48%	30	11	9,228.2	307.6	5.7288	-1.0583	7.8065	22.4951
Dec-32	82.36%	31	12	9,513.0	306.9	5.7264	-0.9319	8.4332	21.4157

### Base Forecast of Refinery Gas Demand (2023-2040)

Month	Ref G30 %	#Days per month	Month #	Total Ref Mdth	Total Ref Mdth/Day	Ln(Mdth_D)	ln(G/P)	Burner_tip_Gas (G) \$/dth	Propane (P) \$/dth
Jan-33	82.10%	31	1	9,476.5	305.7	5.7226	-0.7294	8.6669	17.9742
Feb-33	82.16%	28	2	8,572.4	306.2	5.7241	-0.8094	8.4501	18.9829
Mar-33	80.40%	31	3	9,479.6	305.8	5.7229	-0.7466	8.0358	16.9533
Apr-33	78.91%	30	4	9,168.1	305.6	5.7223	-0.7139	7.3028	14.9117
May-33	80.50%	31	5	9,483.2	305.9	5.7233	-0.7667	7.2154	15.5315
Jun-33	78.21%	30	6	9,195.9	306.5	5.7253	-0.8732	7.4299	17.7919
Jul-33	78.39%	31	7	9,513.4	306.9	5.7265	-0.9341	7.5550	19.2259
Aug-33	79.76%	31	8	9,517.9	307.0	5.7269	-0.9588	7.6686	20.0037
Sep-33	82.29%	30	9	9,229.3	307.6	5.7289	-1.0646	7.5275	21.8267
Oct-33	75.54%	31	10	9,563.1	308.5	5.7317	-1.2087	7.4642	24.9986
Nov-33	81.48%	30	11	9,230.1	307.7	5.7290	-1.0689	8.1750	23.8076
Dec-33	82.36%	31	12	9,519.4	307.1	5.7271	-0.9674	8.6147	22.6652
Jan-34	82.10%	31	1	9,484.6	306.0	5.7234	-0.7741	8.7071	18.8833
Feb-34	82.16%	28	2	8,578.0	306.4	5.7248	-0.8436	8.5783	19.9430
Mar-34	80.40%	31	3	9,484.2	305.9	5.7234	-0.7721	8.2291	17.8108
Apr-34	78.91%	30	4	9,168.9	305.6	5.7224	-0.7184	7.6376	15.6658
May-34	80.50%	31	5	9,483.8	305.9	5.7234	-0.7696	7.5578	16.3170
Jun-34	78.21%	30	6	9,196.8	306.6	5.7254	-0.8782	7.7667	18.6918
Jul-34	78.39%	31	7	9,514.4	306.9	5.7266	-0.9394	7.8945	20.1983
Aug-34	79.76%	31	8	9,517.8	307.0	5.7269	-0.9583	8.0605	21.0155
Sep-34	82.29%	30	9	9,228.4	307.6	5.7288	-1.0592	7.9511	22.9306
Oct-34	75.54%	31	10	9,561.5	308.4	5.7315	-1.2000	7.9100	26.2630
Nov-34	81.48%	30	11	9,232.6	307.8	5.7293	-1.0834	8.4647	25.0117
Dec-34	82.36%	31	12	9,521.2	307.1	5.7273	-0.9776	8.9586	23.8116
Jan-35	82.10%	31	1	9,484.9	306.0	5.7235	-0.7760	9.0233	19.6051
Feb-35	82.16%	28	2	8,579.8	306.4	5.7250	-0.8548	8.8075	20.7054
Mar-35	80.40%	31	3	9,488.6	306.1	5.7239	-0.7965	8.3380	18.4917
Apr-35	78.91%	30	4	9,176.4	305.9	5.7232	-0.7611	7.5982	16.2647
May-35	80.50%	31	5	9,492.7	306.2	5.7243	-0.8195	7.4653	16.9408
Jun-35	78.21%	30	6	9,206.5	306.9	5.7265	-0.9341	7.6253	19.4063
Jul-35	78.39%	31	7	9,524.2	307.2	5.7276	-0.9937	7.7635	20.9705
Aug-35	79.76%	31	8	9,526.4	307.3	5.7278	-1.0058	7.9801	21.8188
Sep-35	82.29%	30	9	9,237.4	307.9	5.7298	-1.1107	7.8405	23.8072
Oct-35	75.54%	31	10	9,571.7	308.8	5.7326	-1.2561	7.7648	27.2669
Nov-35	81.48%	30	11	9,237.7	307.9	5.7299	-1.1123	8.5380	25.9679
Dec-35	82.36%	31	12	9,529.8	307.4	5.7282	-1.0248	8.8720	24.7218
Jan-36	82.10%	31	1	9,493.3	306.2	5.7244	-0.8224	8.8799	20.2097
Feb-36	82.16%	29	2	8,893.5	306.7	5.7258	-0.8975	8.6991	21.3438
Mar-36	80.40%	31	3	9,493.0	306.2	5.7243	-0.8208	8.3883	19.0619
Apr-36	78.91%	30	4	9,176.0	305.9	5.7231	-0.7588	7.8508	16.7662
May-36	80.50%	31	5	9,491.1	306.2	5.7241	-0.8104	7.7658	17.4631
Jun-36	78.21%	30	6	9,206.9	306.9	5.7265	-0.9363	7.8433	20.0047
Jul-36	78.39%	31	7	9,523.0	307.2	5.7275	-0.9872	8.0548	21.6171
Aug-36	79.76%	31	8	9,527.1	307.3	5.7279	-1.0097	8.1941	22.4916
Sep-36	82.29%	30	9	9,233.6	307.8	5.7294	-1.0887	8.2617	24.5413
Oct-36	75.54%	31	10	9,567.2	308.6	5.7321	-1.2312	8.2057	28.1077
Nov-36	81.48%	30	11	9,236.2	307.9	5.7297	-1.1040	8.8753	26.7686
Dec-36	82.36%	31	12	9,527.2	307.3	5.7279	-1.0107	9.2756	25.4841
Jan-37	82.10%	31	1	9,491.2	306.2	5.7241	-0.8111	9.2713	20.8629
Feb-37	82.16%	28	2	8,585.5	306.6	5.7256	-0.8896	9.0515	22.0337
Mar-37	80.40%	31	3	9,490.0	306.1	5.7240	-0.8042	8.8047	19.6780
Apr-37	78.91%	30	4	9,170.6	305.7	5.7226	-0.7281	8.3570	17.3082
May-37	80.50%	31	5	9,488.7	306.1	5.7239	-0.7971	8.1237	18.0276
Jun-37	78.21%	30	6	9,204.2	306.8	5.7262	-0.9209	8.2223	20.6513
Jul-37	78.39%	31	7	9,520.7	307.1	5.7272	-0.9744	8.4228	22.3159
Aug-37	79.76%	31	8	9,524.1	307.2	5.7276	-0.9936	8.5969	23.2187
Sep-37	82.29%	30	9	9,230.6	307.7	5.7291	-1.0718	8.6740	25.3346
Oct-37	75.54%	31	10	9,563.0	308.5	5.7317	-1.2081	8.6692	29.0163
Nov-37	81.48%	30	11	9,233.3	307.8	5.7294	-1.0871	9.3183	27.6339
Dec-37	82.36%	31	12	9,524.0	307.2	5.7276	-0.9929	9.7475	26.3079
Jan-38	82.10%	31	1	9,489.8	306.1	5.7240	-0.8032	9.7465	21.7617

### Base Forecast of Refinery Gas Demand (2023-2040)

Month	Ref G30 %	#Days per month	Month #	Total Ref Mdth	Total Ref Mdth/Day	Ln(Mdth_D)	ln(G/P)	Burner_tip_Gas (G) \$/dth	Propane (P) \$/dth
Feb-38	82.16%	28	2	8,585.1	306.6	5.7256	-0.8872	9.4648	22.9830
Mar-38	80.40%	31	3	9,491.3	306.2	5.7241	-0.8115	9.1177	20.5258
Apr-38	78.91%	30	4	9,176.1	305.9	5.7232	-0.7597	8.4456	18.0539
May-38	80.50%	31	5	9,490.7	306.2	5.7241	-0.8084	8.3787	18.8043
Jun-38	78.21%	30	6	9,206.0	306.9	5.7264	-0.9312	8.4885	21.5410
Jul-38	78.39%	31	7	9,523.5	307.2	5.7275	-0.9899	8.6498	23.2773
Aug-38	79.76%	31	8	9,527.5	307.3	5.7280	-1.0123	8.8008	24.2189
Sep-38	82.29%	30	9	9,235.0	307.8	5.7296	-1.0969	8.8237	26.4260
Oct-38	75.54%	31	10	9,567.8	308.6	5.7322	-1.2345	8.8072	30.2663
Nov-38	81.48%	30	11	9,236.9	307.9	5.7298	-1.1079	9.5192	28.8244
Dec-38	82.36%	31	12	9,529.7	307.4	5.7282	-1.0243	9.8525	27.4413
Jan-39	82.10%	31	1	9,490.6	306.1	5.7241	-0.8076	9.9075	22.2187
Feb-39	82.16%	28	2	8,586.3	306.7	5.7257	-0.8948	9.5905	23.4655
Mar-39	80.40%	31	3	9,492.9	306.2	5.7243	-0.8204	9.2266	20.9567
Apr-39	78.91%	30	4	9,176.4	305.9	5.7232	-0.7614	8.6087	18.4329
May-39	80.50%	31	5	9,491.2	306.2	5.7241	-0.8110	8.5320	19.1991
Jun-39	78.21%	30	6	9,206.5	306.9	5.7265	-0.9339	8.6434	21.9933
Jul-39	78.39%	31	7	9,524.3	307.2	5.7276	-0.9947	8.7894	23.7660
Aug-39	79.76%	31	8	9,527.6	307.3	5.7280	-1.0127	8.9820	24.7275
Sep-39	82.29%	30	9	9,235.2	307.8	5.7296	-1.0980	8.9989	26.9809
Oct-39	75.54%	31	10	9,567.6	308.6	5.7322	-1.2337	8.9989	30.9018
Nov-39	81.48%	30	11	9,238.0	307.9	5.7299	-1.1138	9.6621	29.4296
Dec-39	82.36%	31	12	9,529.8	307.4	5.7282	-1.0246	10.0565	28.0174
Jan-40	82.10%	31	1	9,493.8	306.3	5.7244	-0.8253	10.1211	23.1012
Feb-40	82.16%	29	2	8,894.7	306.7	5.7259	-0.9046	9.8741	24.3977
Mar-40	80.40%	31	3	9,494.7	306.3	5.7245	-0.8303	9.4982	21.7892
Apr-40	78.91%	30	4	9,178.0	305.9	5.7234	-0.7703	8.8712	19.1651
May-40	80.50%	31	5	9,491.3	306.2	5.7241	-0.8116	8.8662	19.9617
Jun-40	78.21%	30	6	9,207.9	306.9	5.7266	-0.9419	8.9153	22.8670
Jul-40	78.39%	31	7	9,526.6	307.3	5.7279	-1.0074	9.0231	24.7101
Aug-40	79.76%	31	8	9,528.4	307.4	5.7280	-1.0170	9.2986	25.7097
Sep-40	82.29%	30	9	9,237.9	307.9	5.7299	-1.1134	9.2134	28.0526
Oct-40	75.54%	31	10	9,570.3	308.7	5.7324	-1.2485	9.2186	32.1293
Nov-40	81.48%	30	11	9,239.5	308.0	5.7300	-1.1226	9.9577	30.5986
Dec-40	82.36%	31	12	9,532.2	307.5	5.7284	-1.0382	10.3152	29.1304

## **ADJUSTMENTS TO THE BASE FORECAST**

### **A. Energy Efficiency/DSM Program Savings**

Adjustments for energy efficiency/DSM (EE/DSM) programs for refinery customers are applied to the G-30 load portion of the refinery gas demand. The cogeneration (G-50) load is exempt from participating in these programs. The values applied to the refinery G-30 load have been noted in the earlier discussion of the overall G-30 load forecast.

### **B. Refinery Industrial G-30 Gas Demand**

The noncore industrial refinery gas demand receives G-30 rate treatment. It is basically the non-cogeneration gas load at refinery facilities served by SoCalGas. The details of how the gas demand forecast for total gas demand at refineries is provided above as the Base forecast of refinery gas demand. In this part of the noncore C&I only the refinery load billed at G-30 rates is discussed.

Continuing with the August 2026 month as an example and using the data from the following two tables, the G-30 industrial refinery demand was projected to be:

G-30 Refinery Gas Demand, Aug-2026 = (7,556.4) - (24.3) = (7,532.1 MDth).

The reduction of 24.3 MDth is the accumulated EE/DSM program impact for refineries.

### **C. Refinery Cogeneration Gas Demand**

Gas used for cogeneration at refineries receives G-50 rate treatment does not have out-of-model adjustment. The G-50 gas demand forecast for cogeneration for August 2026 is:

G-50 Refinery Gas Demand, Aug-2026 = (1,917.4 MDth).



## **REFINERY GAS DEMAND FORECASTS**

### **A. Annual Forecast Table**

The first table below provides annual gas demand for the refinery segment. Recorded data are for year 2023, while forecasts cover years 2024-2040.

### **B. Monthly Forecast Tables**

The additional four tables below provide monthly gas demand for the refinery segment. Recorded data are for year 2023, while forecasts cover years 2024-2040.

**Annual Refinery Gas Demand: Recorded (2023)**

**Forecast (2024-2040) (MDth)**

		Refinery Industrial (G-30) Gas Demand			Refinery Cogeneration (G-50) Gas Demand			
Year	Total Refinery (G30 + G50) (MDth)	Ref G30, Base Econ. Fcst	Accum. EE/DSM Scg Pgm Savings for Refinery G-30	Base Ref G30, less EE/DSM (MDth)	Cal. Days per Year	Ref G50, Base Econ. Fcst	Out-of-model Adj. for Refinery G- 50	Base Ref G50 plus Out-of- model Adj (MDth)
2023	<b>112,816</b>	90,507	0	90,507	365	22,309	0	22,309
2024	<b>112,172</b>	90,015	125	89,890	366	22,282	0	22,282
2025	<b>111,710</b>	89,714	216	89,498	365	22,212	0	22,212
2026	<b>110,998</b>	89,200	286	88,913	365	22,085	0	22,085
2027	<b>111,062</b>	89,306	356	88,950	365	22,112	0	22,112
2028	<b>111,243</b>	89,511	422	89,089	366	22,154	0	22,154
2029	<b>111,054</b>	89,403	484	88,920	365	22,134	0	22,134
2030	<b>111,173</b>	89,546	543	89,003	365	22,170	0	22,170
2031	<b>111,267</b>	89,667	600	89,068	365	22,199	0	22,199
2032	<b>111,586</b>	89,973	655	89,318	366	22,267	0	22,267
2033	<b>111,241</b>	89,733	708	89,025	365	22,216	0	22,216
2034	<b>111,212</b>	89,752	760	88,993	365	22,220	0	22,220
2035	<b>111,246</b>	89,819	810	89,009	365	22,237	0	22,237
2036	<b>111,508</b>	90,076	860	89,216	366	22,292	0	22,292
2037	<b>111,116</b>	89,796	910	88,886	365	22,230	0	22,230
2038	<b>111,100</b>	89,822	960	88,862	365	22,237	0	22,237
2039	<b>111,182</b>	89,828	885	88,943	365	22,239	0	22,239
2040	<b>111,552</b>	90,098	844	89,254	366	22,298	0	22,298

**Monthly Refinery Gas Demand: Recorded (2023)**

**Forecast (2024-2040) (MDth)**

		Refinery Industrial (G-30) Gas Demand			Refinery Cogeneration (G-50) Gas Demand			
Month	Total Refinery (G30 + G50) (MDth)	Ref G30, Base Econ. Fcst	Accum. EE/DSM Scg Pgm Savings for Refinery G-30	Cal. Days per Year	Cal. Days per Month	Ref G50, Base Econ. Fcst	Out-of-model Adj. for Refinery G-50	Base Ref G50 plus Out-of-model Adj (MDth)
Jan-23	9,769	8,020	0	8,020	31	1,749	0	1,749
Feb-23	9,039	7,427	0	7,427	28	1,612	0	1,612
Mar-23	9,929	7,983	0	7,983	31	1,946	0	1,946
Apr-23	10,010	7,899	0	7,899	30	2,112	0	2,112
May-23	10,142	8,165	0	8,165	31	1,978	0	1,978
Jun-23	8,985	7,027	0	7,027	30	1,958	0	1,958
Jul-23	9,622	7,542	0	7,542	31	2,079	0	2,079
Aug-23	9,711	7,746	0	7,746	31	1,965	0	1,965
Sep-23	8,755	7,205	0	7,205	30	1,550	0	1,550
Oct-23	7,967	6,018	0	6,018	31	1,949	0	1,949
Nov-23	8,889	7,243	0	7,243	30	1,646	0	1,646
Dec-23	9,996	8,232	0	8,232	31	1,764	0	1,764
Jan-24	9,420	7,742	11	7,732	31	1,688	0	1,688
Feb-24	8,838	7,270	10	7,260	29	1,578	0	1,578
Mar-24	9,489	7,638	11	7,628	31	1,862	0	1,862
Apr-24	9,190	7,260	10	7,249	30	1,941	0	1,941
May-24	9,512	7,665	11	7,655	31	1,857	0	1,857
Jun-24	9,213	7,213	10	7,203	30	2,010	0	2,010
Jul-24	9,499	7,454	11	7,444	31	2,055	0	2,055
Aug-24	9,504	7,589	11	7,579	31	1,926	0	1,926
Sep-24	9,215	7,591	10	7,581	30	1,634	0	1,634
Oct-24	9,576	7,242	11	7,231	31	2,345	0	2,345
Nov-24	9,230	7,529	10	7,519	30	1,711	0	1,711
Dec-24	9,485	7,820	11	7,810	31	1,675	0	1,675
Jan-25	9,450	7,773	18	7,755	31	1,695	0	1,695
Feb-25	8,566	7,052	17	7,035	28	1,531	0	1,531
Mar-25	9,470	7,629	18	7,610	31	1,859	0	1,859
Apr-25	9,149	7,233	18	7,216	30	1,934	0	1,934
May-25	9,480	7,647	18	7,628	31	1,852	0	1,852
Jun-25	9,200	7,209	18	7,191	30	2,009	0	2,009
Jul-25	9,496	7,458	18	7,439	31	2,056	0	2,056
Aug-25	9,500	7,592	18	7,574	31	1,926	0	1,926
Sep-25	9,195	7,581	18	7,563	30	1,631	0	1,631
Oct-25	9,528	7,211	18	7,193	31	2,335	0	2,335
Nov-25	9,201	7,512	18	7,494	30	1,707	0	1,707
Dec-25	9,474	7,818	18	7,799	31	1,675	0	1,675
Jan-26	9,387	7,726	24	7,702	31	1,685	0	1,685
Feb-26	8,470	6,977	22	6,955	28	1,515	0	1,515
Mar-26	9,377	7,558	24	7,534	31	1,842	0	1,842
Apr-26	9,080	7,183	24	7,160	30	1,920	0	1,920
May-26	9,395	7,583	24	7,559	31	1,837	0	1,837
Jun-26	9,131	7,160	24	7,136	30	1,995	0	1,995
Jul-26	9,441	7,420	24	7,395	31	2,045	0	2,045
Aug-26	9,449	7,556	24	7,532	31	1,917	0	1,917
Sep-26	9,164	7,560	24	7,537	30	1,627	0	1,627
Oct-26	9,493	7,189	24	7,165	31	2,328	0	2,328
Nov-26	9,164	7,486	24	7,463	30	1,702	0	1,702
Dec-26	9,447	7,801	24	7,776	31	1,671	0	1,671
Jan-27	9,389	7,733	30	7,702	31	1,686	0	1,686
Feb-27	8,471	6,982	27	6,955	28	1,516	0	1,516
Mar-27	9,381	7,567	30	7,536	31	1,844	0	1,844
Apr-27	9,087	7,193	29	7,164	30	1,923	0	1,923
May-27	9,408	7,598	30	7,568	31	1,840	0	1,840
Jun-27	9,139	7,170	29	7,141	30	1,998	0	1,998
Jul-27	9,449	7,431	30	7,401	31	2,049	0	2,049
Aug-27	9,455	7,565	30	7,535	31	1,920	0	1,920
Sep-27	9,169	7,570	29	7,540	30	1,629	0	1,629
Oct-27	9,502	7,200	30	7,170	31	2,332	0	2,332
Nov-27	9,170	7,496	29	7,467	30	1,704	0	1,704
Dec-27	9,442	7,801	30	7,771	31	1,671	0	1,671

**Monthly Refinery Gas Demand: Recorded (2023)**

**Forecast (2024-2040) (MDth)**

		Refinery Industrial (G-30) Gas Demand			Refinery Cogeneration (G-50) Gas Demand			
Month	Total Refinery (G30 + G50) (MDth)	Ref G30, Base Econ. Fcst	Accum. EE/DSM Scg Pgm Savings for Refinery G-30	Cal. Days per Year	Cal. Days per Month	Ref G50, Base Econ. Fcst	Out-of-model Adj. for Refinery G-50	Base Ref G50 plus Out-of-model Adj (MDth)
Jan-28	9,374	7,725	36	7,689	31	1,685	0	1,685
Feb-28	8,793	7,252	33	7,219	29	1,575	0	1,575
Mar-28	9,400	7,586	36	7,551	31	1,849	0	1,849
Apr-28	9,089	7,199	35	7,165	30	1,925	0	1,925
May-28	9,400	7,595	36	7,560	31	1,840	0	1,840
Jun-28	9,117	7,157	35	7,123	30	1,994	0	1,994
Jul-28	9,428	7,418	36	7,383	31	2,045	0	2,045
Aug-28	9,432	7,552	36	7,516	31	1,916	0	1,916
Sep-28	9,147	7,555	35	7,521	30	1,626	0	1,626
Oct-28	9,478	7,187	36	7,151	31	2,327	0	2,327
Nov-28	9,152	7,485	35	7,451	30	1,701	0	1,701
Dec-28	9,432	7,798	36	7,762	31	1,671	0	1,671
Jan-29	9,397	7,749	41	7,707	31	1,690	0	1,690
Feb-29	8,505	7,019	37	6,982	28	1,524	0	1,524
Mar-29	9,405	7,595	41	7,554	31	1,851	0	1,851
Apr-29	9,096	7,209	40	7,169	30	1,927	0	1,927
May-29	9,407	7,605	41	7,564	31	1,842	0	1,842
Jun-29	9,124	7,167	40	7,127	30	1,997	0	1,997
Jul-29	9,438	7,430	41	7,389	31	2,048	0	2,048
Aug-29	9,440	7,563	41	7,522	31	1,919	0	1,919
Sep-29	9,155	7,567	40	7,527	30	1,628	0	1,628
Oct-29	9,487	7,198	41	7,157	31	2,331	0	2,331
Nov-29	9,158	7,494	40	7,455	30	1,703	0	1,703
Dec-29	9,440	7,808	41	7,767	31	1,673	0	1,673
Jan-30	9,398	7,753	46	7,707	31	1,691	0	1,691
Feb-30	8,504	7,021	42	6,980	28	1,524	0	1,524
Mar-30	9,401	7,596	46	7,550	31	1,851	0	1,851
Apr-30	9,103	7,218	45	7,173	30	1,930	0	1,930
May-30	9,426	7,625	46	7,579	31	1,847	0	1,847
Jun-30	9,138	7,181	45	7,137	30	2,001	0	2,001
Jul-30	9,452	7,445	46	7,399	31	2,053	0	2,053
Aug-30	9,455	7,578	46	7,532	31	1,923	0	1,923
Sep-30	9,171	7,584	45	7,539	30	1,632	0	1,632
Oct-30	9,503	7,214	46	7,168	31	2,336	0	2,336
Nov-30	9,171	7,509	45	7,464	30	1,707	0	1,707
Dec-30	9,451	7,821	46	7,775	31	1,676	0	1,676
Jan-31	9,413	7,770	51	7,719	31	1,694	0	1,694
Feb-31	8,523	7,040	46	6,994	28	1,529	0	1,529
Mar-31	9,425	7,619	51	7,568	31	1,857	0	1,857
Apr-31	9,115	7,231	49	7,182	30	1,933	0	1,933
May-31	9,427	7,629	51	7,578	31	1,848	0	1,848
Jun-31	9,139	7,186	49	7,137	30	2,002	0	2,002
Jul-31	9,453	7,450	51	7,399	31	2,054	0	2,054
Aug-31	9,456	7,583	51	7,532	31	1,924	0	1,924
Sep-31	9,173	7,589	49	7,540	30	1,633	0	1,633
Oct-31	9,506	7,219	51	7,168	31	2,338	0	2,338
Nov-31	9,178	7,519	49	7,469	30	1,709	0	1,709
Dec-31	9,459	7,832	51	7,781	31	1,678	0	1,678
Jan-32	9,421	7,780	55	7,724	31	1,697	0	1,697
Feb-32	8,829	7,297	52	7,245	29	1,584	0	1,584
Mar-32	9,426	7,624	55	7,568	31	1,858	0	1,858
Apr-32	9,114	7,233	54	7,180	30	1,934	0	1,934
May-32	9,427	7,633	55	7,578	31	1,849	0	1,849
Jun-32	9,141	7,191	54	7,138	30	2,004	0	2,004
Jul-32	9,456	7,456	55	7,400	31	2,055	0	2,055
Aug-32	9,458	7,588	55	7,533	31	1,925	0	1,925
Sep-32	9,175	7,594	54	7,541	30	1,634	0	1,634
Oct-32	9,506	7,223	55	7,168	31	2,339	0	2,339
Nov-32	9,175	7,519	54	7,465	30	1,709	0	1,709
Dec-32	9,458	7,835	55	7,779	31	1,678	0	1,678

**Monthly Refinery Gas Demand: Recorded (2023)**

**Forecast (2024-2040) (MDth)**

Month	Total Refinery (G30 + G50) (MDth)	Refinery Industrial (G-30) Gas Demand			Refinery Cogeneration (G-50) Gas Demand			
		Ref G30, Base Econ. Fcst	Accum. EE/DSM Scg Pgm Savings for Refinery G-30	Cal. Days per Year	Cal. Days per Month	Ref G50, Base Econ. Fcst	Out-of-model Adj. for Refinery G-50	Base Ref G50 plus Out-of-model Adj (MDth)
Jan-33	9,416	7,780	60	7,720	31	1,697	0	1,697
Feb-33	8,518	7,043	54	6,989	28	1,529	0	1,529
Mar-33	9,419	7,622	60	7,562	31	1,858	0	1,858
Apr-33	9,110	7,234	58	7,176	30	1,934	0	1,934
May-33	9,423	7,634	60	7,574	31	1,849	0	1,849
Jun-33	9,138	7,192	58	7,134	30	2,004	0	2,004
Jul-33	9,453	7,457	60	7,397	31	2,056	0	2,056
Aug-33	9,458	7,592	60	7,531	31	1,926	0	1,926
Sep-33	9,171	7,595	58	7,537	30	1,634	0	1,634
Oct-33	9,503	7,224	60	7,164	31	2,339	0	2,339
Nov-33	9,172	7,521	58	7,462	30	1,709	0	1,709
Dec-33	9,459	7,840	60	7,780	31	1,680	0	1,680
Jan-34	9,420	7,786	65	7,722	31	1,698	0	1,698
Feb-34	8,520	7,048	58	6,990	28	1,530	0	1,530
Mar-34	9,420	7,625	65	7,561	31	1,859	0	1,859
Apr-34	9,106	7,235	62	7,172	30	1,934	0	1,934
May-34	9,419	7,635	65	7,570	31	1,849	0	1,849
Jun-34	9,134	7,193	62	7,130	30	2,004	0	2,004
Jul-34	9,450	7,458	65	7,394	31	2,056	0	2,056
Aug-34	9,453	7,591	65	7,527	31	1,926	0	1,926
Sep-34	9,166	7,594	62	7,532	30	1,634	0	1,634
Oct-34	9,497	7,223	65	7,158	31	2,339	0	2,339
Nov-34	9,170	7,523	62	7,460	30	1,710	0	1,710
Dec-34	9,457	7,841	65	7,777	31	1,680	0	1,680
Jan-35	9,416	7,787	69	7,718	31	1,698	0	1,698
Feb-35	8,518	7,049	62	6,987	28	1,531	0	1,531
Mar-35	9,420	7,629	69	7,560	31	1,860	0	1,860
Apr-35	9,110	7,241	67	7,174	30	1,936	0	1,936
May-35	9,424	7,642	69	7,573	31	1,851	0	1,851
Jun-35	9,140	7,200	67	7,134	30	2,006	0	2,006
Jul-35	9,455	7,466	69	7,397	31	2,058	0	2,058
Aug-35	9,458	7,598	69	7,530	31	1,928	0	1,928
Sep-35	9,171	7,602	67	7,535	30	1,636	0	1,636
Oct-35	9,503	7,230	69	7,162	31	2,341	0	2,341
Nov-35	9,171	7,527	67	7,460	30	1,711	0	1,711
Dec-35	9,461	7,848	69	7,780	31	1,681	0	1,681
Jan-36	9,420	7,794	73	7,721	31	1,700	0	1,700
Feb-36	8,825	7,307	68	7,239	29	1,586	0	1,586
Mar-36	9,420	7,633	73	7,560	31	1,860	0	1,860
Apr-36	9,105	7,240	70	7,170	30	1,936	0	1,936
May-36	9,418	7,640	73	7,568	31	1,851	0	1,851
Jun-36	9,136	7,201	70	7,130	30	2,006	0	2,006
Jul-36	9,450	7,465	73	7,392	31	2,058	0	2,058
Aug-36	9,454	7,599	73	7,526	31	1,928	0	1,928
Sep-36	9,163	7,598	70	7,528	30	1,635	0	1,635
Oct-36	9,494	7,227	73	7,154	31	2,340	0	2,340
Nov-36	9,166	7,526	70	7,455	30	1,711	0	1,711
Dec-36	9,454	7,846	73	7,773	31	1,681	0	1,681
Jan-37	9,414	7,792	77	7,715	31	1,699	0	1,699
Feb-37	8,516	7,054	70	6,984	28	1,532	0	1,532
Mar-37	9,413	7,630	77	7,553	31	1,860	0	1,860
Apr-37	9,096	7,236	75	7,161	30	1,934	0	1,934
May-37	9,411	7,638	77	7,561	31	1,850	0	1,850
Jun-37	9,129	7,198	75	7,124	30	2,006	0	2,006
Jul-37	9,443	7,463	77	7,386	31	2,058	0	2,058
Aug-37	9,447	7,597	77	7,519	31	1,928	0	1,928
Sep-37	9,156	7,596	75	7,521	30	1,635	0	1,635
Oct-37	9,486	7,224	77	7,147	31	2,339	0	2,339
Nov-37	9,158	7,523	75	7,448	30	1,710	0	1,710
Dec-37	9,447	7,844	77	7,766	31	1,680	0	1,680

**Monthly Refinery Gas Demand: Recorded (2023)**

**Forecast (2024-2040) (MDth)**

		Refinery Industrial (G-30) Gas Demand			Refinery Cogeneration (G-50) Gas Demand			
Month	Total Refinery (G30 + G50) (MDth)	Ref G30, Base Econ. Fcst	Accum. EE/DSM Scg Pgm Savings for Refinery G-30	Cal. Days per Year	Cal. Days per Month	Ref G50, Base Econ. Fcst	Out-of-model Adj. for Refinery G-50	Base Ref G50 plus Out-of-model Adj (MDth)
Jan-38	9,408	7,791	82	7,709	31	1,699	0	1,699
Feb-38	8,511	7,054	74	6,980	28	1,531	0	1,531
Mar-38	9,410	7,631	82	7,550	31	1,860	0	1,860
Apr-38	9,097	7,241	79	7,162	30	1,936	0	1,936
May-38	9,409	7,640	82	7,559	31	1,851	0	1,851
Jun-38	9,127	7,200	79	7,121	30	2,006	0	2,006
Jul-38	9,442	7,465	82	7,384	31	2,058	0	2,058
Aug-38	9,446	7,599	82	7,518	31	1,928	0	1,928
Sep-38	9,156	7,600	79	7,521	30	1,635	0	1,635
Oct-38	9,486	7,227	82	7,146	31	2,340	0	2,340
Nov-38	9,158	7,526	79	7,447	30	1,711	0	1,711
Dec-38	9,448	7,848	82	7,767	31	1,681	0	1,681
Jan-39	9,415	7,791	75	7,716	31	1,699	0	1,699
Feb-39	8,518	7,055	68	6,987	28	1,532	0	1,532
Mar-39	9,418	7,632	75	7,557	31	1,860	0	1,860
Apr-39	9,104	7,241	73	7,168	30	1,936	0	1,936
May-39	9,416	7,641	75	7,565	31	1,851	0	1,851
Jun-39	9,134	7,200	73	7,128	30	2,006	0	2,006
Jul-39	9,449	7,466	75	7,391	31	2,058	0	2,058
Aug-39	9,452	7,599	75	7,524	31	1,928	0	1,928
Sep-39	9,162	7,600	73	7,527	30	1,635	0	1,635
Oct-39	9,492	7,227	75	7,152	31	2,340	0	2,340
Nov-39	9,165	7,527	73	7,454	30	1,711	0	1,711
Dec-39	9,455	7,848	75	7,773	31	1,681	0	1,681
Jan-40	9,422	7,794	71	7,723	31	1,700	0	1,700
Feb-40	8,828	7,308	67	7,241	29	1,587	0	1,587
Mar-40	9,423	7,634	71	7,562	31	1,861	0	1,861
Apr-40	9,109	7,242	69	7,173	30	1,936	0	1,936
May-40	9,420	7,641	71	7,569	31	1,851	0	1,851
Jun-40	9,139	7,201	69	7,132	30	2,007	0	2,007
Jul-40	9,455	7,468	71	7,396	31	2,059	0	2,059
Aug-40	9,457	7,600	71	7,528	31	1,928	0	1,928
Sep-40	9,169	7,602	69	7,533	30	1,636	0	1,636
Oct-40	9,499	7,229	71	7,158	31	2,341	0	2,341
Nov-40	9,170	7,528	69	7,459	30	1,711	0	1,711
Dec-40	9,461	7,850	71	7,779	31	1,682	0	1,682

## **ELECTRIC GENERATION (EG)**

## **NON-COGENERATION EG**



## **SDG&E/SoCalGas**

**Jeff Huang**

The electric generation forecast is based on an analysis of the plant's operation in the western electric market using the PLEXOS model from Energy Exemplar. This workpapers include both the input assumptions and results.

### **Workpapers List**

#### **California Energy Demand Forecast**

California Energy Commission's (CEC's) California Energy Demand Forecast, 2023 – 2040 Managed Forecast, February 2024. SoCalGas selected the Mid Energy Demand scenario with Additional Achievable Energy Efficiency (AAEE) Scenario 3 and Additional Achievable Fuel Switching (AAFS) Scenario 3 Programmatic. PG&E provided its own AAFS data.

See Schedule 1 - 3 for the summary of peak and energy data.

#### **New California Resource Assumptions**

The base case assumed the resource additions in 2023 Preferred System Plan as a guideline. See Schedule 4.

#### **Green House Gas (GHG) Compliance Costs**

See Schedule 5.

#### **Once Through Cooling (OTC) Compliance Schedule**

See Schedule 6.

#### **Annual Gas Demand Throughput Forecasts**

See Schedule 7 and Schedule 8.

#### **Peak Day Forecasts**

See Schedule 9 and Schedule 10.







**Schedule 3: Form 1.1c - STATEWIDE**  
 California Energy Demand 2023-2040 Forecast - Planning Forecast  
 Electricity Deliveries to End Users by Agency (GWh)

Planning Area	Agency	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	Average Annual Growth (2023-2040)	
	Colton Public Utilities	355	340	340	341	340	340	342	346	350	355	361	369	379	389	400	410	419	428	436	1.47%	
	Corona, City of	142	136	137	137	138	138	139	140	141	142	143	145	147	150	152	155	157	159	161	0.98%	
	Eastside Power Authority	30	28	28	28	28	28	28	29	29	29	29	29	29	29	29	30	30	30	30	0.38%	
	Industry, City of	40	40	40	41	41	42	42	43	44	45	46	47	48	50	51	53	54	55	56	1.99%	
	Moreno Valley Electric Utility	214	207	209	212	214	217	221	226	231	237	243	251	259	268	276	283	290	297	303	2.26%	
	Pasadena Water and Power	1,050	1,026	1,026	1,032	1,034	1,041	1,053	1,074	1,100	1,127	1,156	1,194	1,235	1,278	1,324	1,367	1,407	1,444	1,478	2.17%	
	Rancho Cucamonga Municipal Utility	102	98	99	100	100	100	101	102	103	104	106	108	111	114	117	120	123	125	127	1.51%	
	Riverside, City of	2,221	2,134	2,144	2,166	2,179	2,202	2,236	2,280	2,331	2,385	2,443	2,515	2,592	2,670	2,749	2,823	2,893	2,958	3,019	2.06%	
	Vernon, City of	1,141	1,104	1,110	1,115	1,114	1,116	1,122	1,128	1,133	1,141	1,148	1,157	1,168	1,179	1,190	1,200	1,208	1,215	1,221	0.59%	
	Victorville Municipal Utility Services	109	103	104	104	104	104	105	105	105	105	106	106	107	107	108	109	109	110	110	0.38%	
	California Department of Water Resources	1,374	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	2,817	0.00%	
	Metropolitan Water District of Southern Californ	2,235	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	1,869	0.00%	
<b>SCE Total</b>		<b>97,680</b>	<b>95,453</b>	<b>95,332</b>	<b>95,509</b>	<b>95,449</b>	<b>95,804</b>	<b>96,669</b>	<b>98,025</b>	<b>99,728</b>	<b>101,644</b>	<b>103,721</b>	<b>106,413</b>	<b>109,411</b>	<b>112,470</b>	<b>115,788</b>	<b>118,923</b>	<b>121,926</b>	<b>124,737</b>	<b>127,376</b>	<b>1.71%</b>	
<b>SDG&amp;E</b>	San Diego Gas & Electric Company (Bundled)	7,827	4,677	3,267	3,139	3,170	3,217	3,298	3,404	3,526	3,682	3,840	4,030	4,237	4,445	4,679	4,881	5,071	5,247	5,412	0.86%	
	San Diego Gas & Electric Company (Direct Acces	3,841	3,846	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,942	3,943	3,944	3,945	3,946	3,947	0.15%
	CCA - Clean Energy Alliance	661	1,169	2,023	2,274	2,305	2,347	2,407	2,486	2,577	2,675	2,777	2,897	3,025	3,148	3,286	3,407	3,521	3,627	3,727	7.06%	
	CCA - Orange County Power Authority	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%	
	CCA - San Diego Community Power	5,539	7,901	8,422	8,464	8,576	8,724	8,944	9,228	9,560	9,918	10,294	10,731	11,197	11,645	12,152	12,599	13,021	13,416	13,788	3.33%	
<b>SDG&amp;E Total</b>		<b>17,867</b>	<b>17,593</b>	<b>17,653</b>	<b>17,819</b>	<b>17,993</b>	<b>18,230</b>	<b>18,591</b>	<b>19,059</b>	<b>19,605</b>	<b>20,217</b>	<b>20,852</b>	<b>21,600</b>	<b>22,401</b>	<b>23,180</b>	<b>24,060</b>	<b>24,832</b>	<b>25,558</b>	<b>26,237</b>	<b>26,874</b>	<b>2.52%</b>	
<b>Northern California Non-California ISO (NCNC)</b>	Sacramento Municipal Utility District	10,662	10,613	10,510	10,548	10,600	10,669	10,798	10,989	11,220	11,453	11,729	12,044	12,371	12,701	13,050	13,386	13,719	14,038	14,344	1.79%	
	Modesto Irrigation District	2,634	2,431	2,411	2,408	2,409	2,408	2,415	2,428	2,445	2,468	2,497	2,536	2,581	2,630	2,680	2,726	2,768	2,807	2,842	0.92%	
	Roseville Electric	1,175	1,093	1,085	1,086	1,087	1,087	1,092	1,100	1,111	1,124	1,139	1,159	1,182	1,206	1,231	1,252	1,273	1,291	1,308	1.06%	
	Redding Electric Utility	733	667	663	663	663	663	666	672	680	689	700	715	731	749	766	782	797	811	823	1.24%	
	Shasta Lake, City of	216	205	203	202	202	202	202	202	202	202	202	203	205	206	208	209	210	211	212	0.18%	
	USBR WAPA Central Valley Project	218	219	219	219	219	220	220	221	222	223	224	225	226	227	227	228	229	229	230	0.28%	
	Turlock Irrigation District	2,306	2,026	2,029	2,045	2,068	2,096	2,133	2,180	2,241	2,315	2,397	2,508	2,624	2,747	2,866	2,975	3,073	3,160	3,238	2.80%	
	Merced Irrigation District	526	500	501	507	515	524	533	544	557	573	590	614	639	665	689	712	733	751	767	2.55%	
<b>NCNC Total</b>		<b>18,469</b>	<b>17,756</b>	<b>17,620</b>	<b>17,678</b>	<b>17,762</b>	<b>17,868</b>	<b>18,060</b>	<b>18,337</b>	<b>18,678</b>	<b>19,047</b>	<b>19,479</b>	<b>20,004</b>	<b>20,558</b>	<b>21,130</b>	<b>21,717</b>	<b>22,270</b>	<b>22,801</b>	<b>23,298</b>	<b>23,764</b>	<b>1.73%</b>	
<b>LADWP</b>	Los Angeles Department of Water and Power	21,842	21,431	21,005	20,989	20,934	21,054	21,358	21,857	22,477	23,186	23,966	24,909	25,901	26,886	27,929	28,933	29,900	30,805	31,642	2.32%	
<b>Burbank/Glendale</b>	Burbank Water and Power	1,012	1,004	995	1,003	1,011	1,025	1,046	1,076	1,115	1,161	1,210	1,268	1,329	1,390	1,456	1,520	1,583	1,644	1,702	3.16%	
	Glendale Water and Power	1,027	1,012	1,001	1,010	1,019	1,036	1,062	1,100	1,149	1,203	1,261	1,330	1,401	1,470	1,545	1,618	1,690	1,759	1,826	3.53%	
<b>BUGL Total</b>		<b>2,039</b>	<b>2,015</b>	<b>1,996</b>	<b>2,013</b>	<b>2,030</b>	<b>2,060</b>	<b>2,108</b>	<b>2,177</b>	<b>2,264</b>	<b>2,364</b>	<b>2,471</b>	<b>2,598</b>	<b>2,730</b>	<b>2,860</b>	<b>3,001</b>	<b>3,138</b>	<b>3,273</b>	<b>3,403</b>	<b>3,528</b>	<b>3.35%</b>	
<b>IID</b>	Imperial Irrigation District	3,584	3,569	3,555	3,564	3,566	3,571	3,583	3,598	3,619	3,643	3,672	3,714	3,760	3,811	3,864	3,914	3,965	4,013	4,060	0.76%	
<b>EA (CA Territory)</b>	Valley Electric Association, Inc.	12	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	-0.04%	
<b>OTHER Total</b>	Liberty Utilities	559	545	545	549	553	558	566	577	591	606	623	643	666	688	710	731	751	770	787	2.19%	
	Needles, City of	56	54	54	55	55	56	57	58	59	61	62	64	67	69	71	73	75	77	79	2.19%	
	PacificCorp	802	782	782	788	793	801	813	829	849	870	894	923	956	987	1,019	1,050	1,078	1,105	1,130	2.19%	
	Surprise Valley Electric Cooperative	118	116	116	116	117	118	120	122	125	129	132	136	141	146	151	155	159	163	167	2.19%	
	Truckee Donner Public Utility District	128	125	125	126	127	128	130	132	136	139	143	147	153	158	163	168	172	176	180	2.19%	
<b>OTHER Total</b>		<b>1,663</b>	<b>1,623</b>	<b>1,623</b>	<b>1,635</b>	<b>1,645</b>	<b>1,661</b>	<b>1,685</b>	<b>1,719</b>	<b>1,760</b>	<b>1,804</b>	<b>1,855</b>	<b>1,914</b>	<b>1,983</b>	<b>2,047</b>	<b>2,114</b>	<b>2,176</b>	<b>2,236</b>	<b>2,292</b>	<b>2,344</b>	<b>2.19%</b>	
<b>STATEWIDE Total</b>		<b>251,758</b>	<b>245,693</b>	<b>245,724</b>	<b>247,587</b>	<b>249,094</b>	<b>251,469</b>	<b>255,151</b>	<b>260,232</b>	<b>266,457</b>	<b>273,213</b>	<b>280,852</b>	<b>289,768</b>	<b>300,293</b>	<b>309,919</b>	<b>320,121</b>	<b>329,575</b>	<b>338,581</b>	<b>347,046</b>	<b>354,907</b>	<b>2.19%</b>	
<b>Total Pumping Load</b>		<b>5,279</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>7,718</b>	<b>0.00%</b>	
<b>STATEWIDE Total Excluding Pumping</b>		<b>246,479</b>	<b>237,975</b>	<b>238,006</b>	<b>239,869</b>	<b>241,376</b>	<b>243,751</b>	<b>247,433</b>	<b>252,514</b>	<b>258,739</b>	<b>265,495</b>	<b>273,134</b>	<b>282,050</b>	<b>292,575</b>	<b>302,201</b>	<b>312,403</b>	<b>321,858</b>	<b>330,863</b>	<b>339,328</b>	<b>347,189</b>	<b>2.25%</b>	

This table includes retail sales and other deliveries only measured at the customer level. Losses and consumption served by self-generation are excluded. Table developed based on actual 2022 data.

Table includes sales from entities outside of California-based Balancing Authority Areas. Thus, STATEWIDE Total in row 106 is higher than total given in STATEWIDE Form 1.1b.

Schedule 4  
New Resources in California (Cumulative MW)

Year	Biogas & Biomass	Geothermal	Solar PV/Thermal	Wind	4-hr Energy Storage	8-hr Energy Storage	Total
2024	-	-	1,500	150	2,150	-	3,800
2025	-	-	4,500	700	5,300	-	10,500
2026	-	184	6,000	1,750	7,150	200	15,284
2027	-	184	6,900	2,500	8,000	400	17,984
2028	134	584	8,400	3,500	8,500	700	21,818
2029	134	584	12,350	4,500	9,000	1,000	27,568
2030	134	860	14,800	7,400	10,300	1,100	34,594
2031	134	860	14,800	10,300	11,600	1,200	38,894
2032	134	1,160	15,700	10,850	12,150	1,300	41,294
2033	134	1,160	16,800	11,400	13,350	1,400	44,244
2034	134	1,160	18,450	11,800	14,500	1,550	47,594
2035	134	1,160	19,000	13,150	15,350	2,250	51,044
2036	200	1,160	21,925	14,600	15,700	2,800	56,385
2037	200	1,160	24,850	15,100	15,700	3,900	60,910
2038	200	1,160	27,775	15,600	15,700	5,000	65,435
2039	200	1,160	32,850	16,100	15,700	6,100	72,110
2040	200	1,160	35,000	16,100	15,700	8,100	76,260

**Schedule 5**  
**GHG Compliance Cost**

Year	Nominal \$/Ton
2024	\$ 43.59
2025	\$ 50.79
2026	\$ 59.19
2027	\$ 68.99
2028	\$ 80.39
2029	\$ 93.69
2030	\$ 109.19
2031	\$ 116.96
2032	\$ 125.28
2033	\$ 134.18
2034	\$ 143.74
2035	\$ 154.09
2036	\$ 165.29
2037	\$ 177.38
2038	\$ 190.43
2039	\$ 204.51
2040	\$ 219.71

Note: GHG Allowance Price Scenarios 2023 IEPR (mid-price scenario).

Schedule 6  
OTC Schedule

Plants	SWRCB		Updated Compliance Dates	2024 CGR Compliance Dates
	Existing Capacity (MW)	Approved Compliance Dates		
Humboldt Bay (1,2)	163	12/31/2010	9/30/2010	Offline
South Bay	708	12/31/2011	12/31/2010	Offline
Potrero (3)	206	10/1/2011	2/28/2011	Offline
Huntington Beach (3,4)	452	12/31/2020	11/1/2012	Offline
Contra Costa (6,7)	674	12/31/2017	4/30/2013	Offline
Haynes (5,6)	535	12/31/2013	6/1/2013	Offline
San Onofre (2,3)	2,246	12/31/2022	6/7/2013	Offline
El Segundo (3)	335	12/31/2015	7/27/2013	Offline
Morro Bay (3,4)	650	12/31/2015	2/5/2014	Offline
El Segundo (4)	335	12/31/2015	12/31/2015	Offline
Scattergood (3)	450	12/31/2015	12/31/2015	Offline
Moss Landing (6,7)	1,510	12/31/2020	12/31/2016	Offline
Pittsburg (5,6,7)	1,307	12/31/2017	12/31/2016	Offline
Encina (1)	104	12/31/2017	3/1/2017	Offline
Mandalay (1,2)	430	12/31/2020	2/5/2018	Offline
Encina (2)	104	12/31/2017	12/31/2018	Offline
Encina (3)	110	12/31/2017	12/31/2018	Offline
Encina (4,5)	628	12/31/2017	12/31/2018	Offline
Redondo (7)	493	12/31/2020	10/1/2019	Offline
Alamitos (1,2,6)	848	12/31/2020	12/31/2019	Offline
Huntington Beach (1)	226	12/31/2020	12/31/2019	Offline
Moss Landing (1,2)	1,020	12/31/2020	12/31/2020	Complied Track 2
Redondo (5,6,8)	850	12/31/2020	12/31/2023	Offline
Alamitos (3,4,5)	1,163	12/31/2020	12/31/2026	12/31/2026
Huntington Beach (2)	226	12/31/2020	12/31/2026	12/31/2026
Ormond Beach (1,2)	1,516	12/31/2020	12/31/2026	12/31/2026
Harbor (5)	229	12/31/2029	12/31/2029	12/31/2029
Haynes (1,2)	444	12/31/2029	12/31/2029	12/31/2029
Haynes (8)	575	12/31/2029	12/31/2029	12/31/2029
Scattergood (1,2)	367	12/31/2024	12/31/2029	12/31/2029
Diablo Canyon (1)	1,120	12/31/2024	10/31/2030	10/31/2030
Diablo Canyon (2)	1,120	12/31/2024	10/31/2030	10/31/2030

Based on State Water Resources Control Board August 15, 2023 Report.



Schedule 7  
Annual Base Case EG Throughput (BCF)  
EG Including Large Cogen

Year	SDG&E	SoCalGas	Total
2024	30	179	209
2025	29	177	206
2026	29	174	203
2027	25	166	192
2028	24	158	182
2029	23	153	176
2030	22	138	160
2031	20	127	146
2032	20	127	146
2033	20	127	146
2034	20	127	146
2035	20	119	139
2036	20	119	139
2037	20	119	139
2038	20	119	139
2039	20	119	139
2040	21	126	147

**Schedule 8**  
**Annual Dry Hydro EG Throughput (BCF)**  
**EG Including Large Cogen**

Year	SDG&E	SoCalGas	Total
2024	31	180	211
2025	29	178	207
2026	29	175	204
2027	26	167	193
2028	25	158	183
2029	24	153	177
2030	23	138	161
2031	20	127	147
2032	20	127	147
2033	20	127	147
2034	20	127	147
2035	20	119	139
2036	20	119	139
2037	20	119	139
2038	20	119	139
2039	20	119	139
2040	21	126	147

Schedule 9  
 Base Case Winter Coincidental Peak Day Demand (MMCFD)  
 EG (Including Large Cogen)

Year	SDG&E	SoCalGas	Total
2024	219	713	932
2025	218	692	910
2026	215	659	874
2027	195	641	837
2028	177	630	806
2029	186	546	732
2030	179	473	652
2031	188	458	646
2032	188	458	646
2033	188	458	646
2034	188	458	646
2035	183	446	629
2036	183	446	629
2037	183	446	629
2038	183	446	629
2039	183	446	629
2040	170	490	660

Schedule 10  
 Dry Hydro Summer Coincidental Peak Day Demand (MMCFD)  
 EG (Including Large Cogen)

Year	SDG&E	SoCalGas	Total
2024	311	1,499	1,810
2025	312	1,461	1,773
2026	322	1,397	1,718
2027	365	1,306	1,671
2028	274	1,380	1,654
2029	277	1,369	1,645
2030	265	1,184	1,450
2031	292	952	1,243
2032	292	952	1,243
2033	292	952	1,243
2034	292	952	1,243
2035	274	928	1,202
2036	274	928	1,202
2037	274	928	1,202
2038	274	928	1,202
2039	274	928	1,202
2040	291	978	1,270

**INDUSTRIAL/COMMERCIAL COGENERATION < 20 MW**

## **Small Cogeneration / Self-Generation (Capacity < 20 Mw) Gas Demand**

### **INTRODUCTION**

The gas demand forecast for small cogeneration / self-generation (capacity < 20 Mw) is based on an econometric relationship from analysis of annual historical data together with a monthly profile of how the annual consumption is split over the months of a year.

### **BASE EQUATION TO FORECAST ANNUAL DEMAND**

The base forecast equation for annual demand is shown below:

$$\text{LN}(\text{SmCoGen\_MDth/yr}) = 8.0465090 + \text{LN}(\#\text{Cust}) \times (0.3387167) \\ + \text{LN}(G/E) \times (-0.2591015), \text{ where}$$

#Cust = Number of active meters/customers,  
G = SCG's "EG tier1" Burner-Tip Price converted to ¢/Kwh  
at 10,000 Btu/Kwh, and  
E = SCE-Retail Ind Elec. Price. ¢/Kwh

The small cogeneration gas demand in a particular year is calculated as:

$$\text{SmCoGen\_MDth/yr} = \text{EXP}[\text{LN}(\text{SmCoGen\_MDth/yr})].$$

For example, the calculation of small cogeneration gas demand for 2026 is as follows:

$$\text{LN}[\text{SmCoGen\_MDth/yr}] = 8.0465090 + \text{LN}(309) \times 0.3387167 \\ + \text{LN}[(12.864995 \text{ ¢/Kwh}) / (18.753390 \text{ ¢/Kwh})] \times (-0.2591015)$$

$$\text{LN}[\text{SmCoGen\_MDth/yr}] = 10.086134$$

$$(\text{EXP}[10.086134]) = 24007.8 \text{ MDth/yr}$$

The table below shows the base annual small cogeneration gas demand forecast.

### Base Annual Forecast of Small Cogeneration Gas Demand

Year	Annual Load (Mdth)	Cust cnt	LN( Ann. Mdth/Yr)	LN( Cust cnt )	LN (G/E)	Gas/Elec. (G/E) Price Ratio	SCE-Retail Ind Elec. Price	SCG's "EG tier1" Burner-Tip Price conv. to ¢/Kw h
2024	24,927.9	309	10.124	5.733	-0.522	0.59	17.41	10.33
2025	25,057.8	309	10.129	5.733	-0.542	0.58	17.71	10.30
2026	24,007.8	309	10.086	5.733	-0.377	0.69	18.75	12.86
2027	24,159.7	309	10.092	5.733	-0.401	0.67	19.37	12.97
2028	23,802.8	309	10.078	5.733	-0.344	0.71	19.64	13.93
2029	23,767.7	309	10.076	5.733	-0.338	0.71	20.01	14.27
2030	23,628.3	309	10.070	5.733	-0.315	0.73	20.40	14.88
2031	23,809.1	309	10.078	5.733	-0.345	0.71	20.82	14.75
2032	23,840.8	309	10.079	5.733	-0.350	0.70	21.25	14.97
2033	23,779.8	309	10.077	5.733	-0.340	0.71	21.66	15.42
2034	23,766.4	309	10.076	5.733	-0.338	0.71	22.13	15.79
2035	23,909.8	309	10.082	5.733	-0.361	0.70	22.73	15.84
2036	23,952.9	309	10.084	5.733	-0.368	0.69	23.31	16.14
2037	23,935.1	309	10.083	5.733	-0.365	0.69	23.94	16.62
2038	23,993.4	309	10.086	5.733	-0.375	0.69	24.62	16.93
2039	24,082.2	309	10.089	5.733	-0.389	0.68	25.32	17.16
2040	24,137.5	309	10.092	5.733	-0.398	0.67	26.05	17.50

## **NONCORE SELF-GENERATION INCENTIVE PROGRAM (G-50, SGIP LOAD)**

SoCalGas administers a program funded by the State of California to encourage customers to install small capacity electric generation equipment to generate electricity for the customer's own use (not for re-sale into the electric transmission & distribution grid). The table below shows the expected annual gas demand for the noncore (G-50) part of the SGIP:

### **Noncore SGIP Annual Forecast of Gas Demand**

Year	G50 SGIP (Mdt)
2024	5.6
2025	11.2
2026	16.8
2027	22.4
2028	28.0
2029	33.6
2030	39.2
2031	44.8
2032	50.4
2033	56.0
2034	61.6
2035	67.2
2036	72.8
2037	78.4
2038	84.0
2039	89.6
2040	95.2



## MONTHLY PATTERN FOR TOTAL SMALL COGEN LOAD

This total annual small cogeneration gas demand was “allocated” into monthly load using the monthly proportions in the table below.

Month #	Month	Smoothed Monthly Load as % of Annual (2021-2023)
1	Jan	8.384%
2	Feb	7.194%
3	Mar	8.511%
4	Apr	8.225%
5	May	8.840%
6	Jun	8.423%
7	Jul	8.755%
8	Aug	8.748%
9	Sep	8.499%
10	Oct	8.231%
11	Nov	8.062%
12	Dec	8.127%
	<b>Total</b>	<b>100.000%</b>

## FORECAST RESULTS

Based on the year 2026 example above. The final annual forecast is:

$$\begin{aligned} \text{SmCoGen\_G-50} &= 24,007.8 \text{ MDth/yr (base forecast)} + 16.8 \text{ MDth/yr (from G-50 SGIP)} \\ &= 24,035.6 \text{ MDth} \end{aligned}$$

Together with the monthly percentages of annual total load in the table above, the August 2026 small cogeneration (G-50) gas demand is calculated as:

$$\begin{aligned} \text{SmCoGen\_G-50} &= 24,035.6 \text{ MDth} \times 8.748\% \text{ (August monthly \% of annual)} \\ &= 2,102 \text{ MDth} \end{aligned}$$

The tables below provide the small cogeneration annual and monthly gas demand forecasts. Recorded data are for year 2023, while forecasts cover years from 2024 through 2040.

**Annual Small Cogeneration / Self-Generation (C&I) Gas Demand:  
Recorded (2023) and  
Forecast (2024-2040) (MDth)**

Year	Small Cogen (C&I) (G-50) Gas Demand (MDth)
2023	23,448
2024	24,933
2025	25,069
2026	24,025
2027	24,182
2028	23,831
2029	23,801
2030	23,667
2031	23,854
2032	23,891
2033	23,836
2034	23,828
2035	23,977
2036	24,026
2037	24,014
2038	24,077
2039	24,172
2040	24,233

**Monthly Small Cogeneration / Self-Generation (C&I) Gas Demand:  
Recorded (2023) and  
Forecast (2024-2040) (MDth)**

Year	Month	Small Cogen (C&I) (G-50) Gas Demand (MDth)
2023	Jan-23	1,966
2023	Feb-23	1,687
2023	Mar-23	1,996
2023	Apr-23	1,929
2023	May-23	2,073
2023	Jun-23	1,975
2023	Jul-23	2,053
2023	Aug-23	2,051
2023	Sep-23	1,993
2023	Oct-23	1,930
2023	Nov-23	1,890
2023	Dec-23	1,906
2024	Jan-24	2,091
2024	Feb-24	1,794
2024	Mar-24	2,122
2024	Apr-24	2,051
2024	May-24	2,204
2024	Jun-24	2,100
2024	Jul-24	2,183
2024	Aug-24	2,181
2024	Sep-24	2,119
2024	Oct-24	2,052
2024	Nov-24	2,010
2024	Dec-24	2,026
2025	Jan-25	2,102
2025	Feb-25	1,804
2025	Mar-25	2,134
2025	Apr-25	2,062
2025	May-25	2,216
2025	Jun-25	2,112
2025	Jul-25	2,195
2025	Aug-25	2,193
2025	Sep-25	2,131
2025	Oct-25	2,063
2025	Nov-25	2,021
2025	Dec-25	2,037
2026	Jan-26	2,014
2026	Feb-26	1,728
2026	Mar-26	2,045
2026	Apr-26	1,976
2026	May-26	2,124
2026	Jun-26	2,024
2026	Jul-26	2,103
2026	Aug-26	2,102
2026	Sep-26	2,042
2026	Oct-26	1,977
2026	Nov-26	1,937
2026	Dec-26	1,953
2027	Jan-27	2,028
2027	Feb-27	1,740
2027	Mar-27	2,058
2027	Apr-27	1,989
2027	May-27	2,138
2027	Jun-27	2,037
2027	Jul-27	2,117
2027	Aug-27	2,116
2027	Sep-27	2,055
2027	Oct-27	1,990
2027	Nov-27	1,949
2027	Dec-27	1,965

**Monthly Small Cogeneration / Self-Generation (C&I) Gas Demand:  
Recorded (2023) and  
Forecast (2024-2040) (MDth)**

Year	Month	Small Cogen (C&I) (G-50) Gas Demand (MDth)
2028	Jan-28	1,998
2028	Feb-28	1,714
2028	Mar-28	2,028
2028	Apr-28	1,960
2028	May-28	2,107
2028	Jun-28	2,007
2028	Jul-28	2,086
2028	Aug-28	2,085
2028	Sep-28	2,025
2028	Oct-28	1,962
2028	Nov-28	1,921
2028	Dec-28	1,937
2029	Jan-29	1,996
2029	Feb-29	1,712
2029	Mar-29	2,026
2029	Apr-29	1,958
2029	May-29	2,104
2029	Jun-29	2,005
2029	Jul-29	2,084
2029	Aug-29	2,082
2029	Sep-29	2,023
2029	Oct-29	1,959
2029	Nov-29	1,919
2029	Dec-29	1,934
2030	Jan-30	1,984
2030	Feb-30	1,703
2030	Mar-30	2,014
2030	Apr-30	1,947
2030	May-30	2,092
2030	Jun-30	1,994
2030	Jul-30	2,072
2030	Aug-30	2,071
2030	Sep-30	2,011
2030	Oct-30	1,948
2030	Nov-30	1,908
2030	Dec-30	1,924
2031	Jan-31	2,000
2031	Feb-31	1,716
2031	Mar-31	2,030
2031	Apr-31	1,962
2031	May-31	2,109
2031	Jun-31	2,009
2031	Jul-31	2,088
2031	Aug-31	2,087
2031	Sep-31	2,027
2031	Oct-31	1,963
2031	Nov-31	1,923
2031	Dec-31	1,939
2032	Jan-32	2,003
2032	Feb-32	1,719
2032	Mar-32	2,033
2032	Apr-32	1,965
2032	May-32	2,112
2032	Jun-32	2,012
2032	Jul-32	2,092
2032	Aug-32	2,090
2032	Sep-32	2,030
2032	Oct-32	1,966
2032	Nov-32	1,926
2032	Dec-32	1,942

**Monthly Small Cogeneration / Self-Generation (C&I) Gas Demand:  
Recorded (2023) and  
Forecast (2024-2040) (MDth)**

Year	Month	Small Cogen (C&I) (G-50) Gas Demand (MDth)
2033	Jan-33	1,998
2033	Feb-33	1,715
2033	Mar-33	2,029
2033	Apr-33	1,961
2033	May-33	2,107
2033	Jun-33	2,008
2033	Jul-33	2,087
2033	Aug-33	2,085
2033	Sep-33	2,026
2033	Oct-33	1,962
2033	Nov-33	1,922
2033	Dec-33	1,937
2034	Jan-34	1,998
2034	Feb-34	1,714
2034	Mar-34	2,028
2034	Apr-34	1,960
2034	May-34	2,106
2034	Jun-34	2,007
2034	Jul-34	2,086
2034	Aug-34	2,085
2034	Sep-34	2,025
2034	Oct-34	1,961
2034	Nov-34	1,921
2034	Dec-34	1,937
2035	Jan-35	2,010
2035	Feb-35	1,725
2035	Mar-35	2,041
2035	Apr-35	1,972
2035	May-35	2,120
2035	Jun-35	2,020
2035	Jul-35	2,099
2035	Aug-35	2,098
2035	Sep-35	2,038
2035	Oct-35	1,974
2035	Nov-35	1,933
2035	Dec-35	1,949
2036	Jan-36	2,014
2036	Feb-36	1,728
2036	Mar-36	2,045
2036	Apr-36	1,976
2036	May-36	2,124
2036	Jun-36	2,024
2036	Jul-36	2,104
2036	Aug-36	2,102
2036	Sep-36	2,042
2036	Oct-36	1,978
2036	Nov-36	1,937
2036	Dec-36	1,953
2037	Jan-37	2,013
2037	Feb-37	1,728
2037	Mar-37	2,044
2037	Apr-37	1,975
2037	May-37	2,123
2037	Jun-37	2,023
2037	Jul-37	2,102
2037	Aug-37	2,101
2037	Sep-37	2,041
2037	Oct-37	1,977
2037	Nov-37	1,936
2037	Dec-37	1,952
2038	Jan-38	2,019
2038	Feb-38	1,732
2038	Mar-38	2,049
2038	Apr-38	1,980
2038	May-38	2,128

**Monthly Small Cogeneration / Self-Generation (C&I) Gas Demand:  
Recorded (2023) and  
Forecast (2024-2040) (MDth)**

Year	Month	Small Cogen (C&I)
		(G-50) Gas Demand (MDth)
2038	Jun-38	2,028
2038	Jul-38	2,108
2038	Aug-38	2,106
2038	Sep-38	2,046
2038	Oct-38	1,982
2038	Nov-38	1,941
2038	Dec-38	1,957
2039	Jan-39	2,027
2039	Feb-39	1,739
2039	Mar-39	2,057
2039	Apr-39	1,988
2039	May-39	2,137
2039	Jun-39	2,036
2039	Jul-39	2,116
2039	Aug-39	2,115
2039	Sep-39	2,054
2039	Oct-39	1,990
2039	Nov-39	1,949
2039	Dec-39	1,965
2040	Jan-40	2,032
2040	Feb-40	1,743
2040	Mar-40	2,062
2040	Apr-40	1,993
2040	May-40	2,142
2040	Jun-40	2,041
2040	Jul-40	2,122
2040	Aug-40	2,120
2040	Sep-40	2,059
2040	Oct-40	1,995
2040	Nov-40	1,954
2040	Dec-40	1,969

## **INDUSTRIAL/COMMERCIAL COGENERATION > 20 MW**

PLEASE REFER TO THE NON-COGENERATION EG SECTION OF THE WORKPAPERS FOR THE DESCRIPTION OF THE DETAILS FOR THE INDUSTRIAL/COMMERCIAL COGEN MARKET.



**ENHANCED OIL RECOVERY-RELATED  
COGENERATION**

Please refer to the earlier the Enhanced Oil Recovery – Steam and Cogeneration section for details about the enhanced oil recovery market.

## **REFINERY RELATED COGENERATION**

Please see the earlier discussion under Refineries for the refineries-related cogeneration demand.

**WHOLESALE AND INTERNATIONAL REQUIREMENTS**

**SAN DIEGO GAS & ELECTRIC (SDG&E)**

For details about SDG&E, please refer to the 2024 California Gas Report workpapers filed separately by SDG&E.

**CITY OF LONG BEACH UTILITIES DEPARTMENT**



**City of Long Beach Wholesale Gas Demand**

**2024 CALIFORNIA GAS REPORT WORKPAPERS**

The forecasted wholesale gas demand provided by the Long Beach Gas and Oil Department is shown on the following two tables. The first table is average year weather conditions; the second table is cold year weather conditions. Years 2024 thru 2040 are forecasts.

SCG 2024CGR Demand Forecast for Long Beach  
 CORE and NONCORE Monthly Demand under Average Year conditions for 2024CGR w/ and w/o Local Production  
 v4/25/2024

Year	CORE Monthly Demand Mdth/month												NONCORE Monthly Demand Mdth/month												CORE & NONCORE Monthly Demand Mdth/month													2024CGR
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024																																						
2025																																						
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2039																																						
2040																																						

SCG 2024CGR Demand Forecast for Long Beach  
 CORE and NONCORE Monthly Demand under Cold Year conditions for 2024CGR w/ and w/o Local Production  
 v4/25/2024

year	CORE Monthly Demand MdtH/month												NONCORE Monthly Demand MdtH/month												CORE & NONCORE Monthly Demand MdtH/month													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024																																						
2025																																						
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# **SOUTHWEST GAS CORPORATION**

**Southwest Gas Corporation - Southern California Division**

**2024 CALIFORNIA GAS REPORT WORKPAPERS**

The forecasted wholesale gas demand provided by Southwest Gas Corporation (Southwest) for their Southern California Division is in the following tables. Table 1 is average year weather conditions. Table 2 is cold year weather conditions. Years 2024 thru 2040 are forecasts.

Mnth/year	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	actual/ forecast
Core from SCG	2024														forecast
Noncore from SCG	2024														forecast
Core from PGE xchg	2024														forecast
Noncore thru PGE xchg	2024														forecast
Core from SCG	2025														forecast
Noncore from SCG	2025														forecast
Core from PGE xchg	2025														forecast
Noncore thru PGE xchg	2025														forecast
Core from SCG	2026														forecast
Noncore from SCG	2026														forecast
Core from PGE xchg	2026														forecast
Noncore thru PGE xchg	2026														forecast
Core from SCG	2027														forecast
Noncore from SCG	2027														forecast
Core from PGE xchg	2027														forecast
Noncore thru PGE xchg	2027														forecast
Core from SCG	2028														forecast
Noncore from SCG	2028														forecast
Core from PGE xchg	2028														forecast
Noncore thru PGE xchg	2028														forecast
Core from SCG	2029														forecast
Noncore from SCG	2029														forecast
Core from PGE xchg	2029														forecast
Noncore thru PGE xchg	2029														forecast
Core from SCG	2030														forecast
Noncore from SCG	2030														forecast
Core from PGE xchg	2030														forecast
Noncore thru PGE xchg	2030														forecast
Core from SCG	2031														forecast
Noncore from SCG	2031														forecast
Core from PGE xchg	2031														forecast
Noncore thru PGE xchg	2031														forecast
Core from SCG	2032														forecast
Noncore from SCG	2032														forecast
Core from PGE xchg	2032														forecast
Noncore thru PGE xchg	2032														forecast
Core from SCG	2033														forecast
Noncore from SCG	2033														forecast
Core from PGE xchg	2033														forecast
Noncore thru PGE xchg	2033														forecast
Core from SCG	2034														forecast
Noncore from SCG	2034														forecast
Core from PGE xchg	2034														forecast
Noncore thru PGE xchg	2034														forecast
Core from SCG	2035														forecast
Noncore from SCG	2035														forecast
Core from PGE xchg	2035														forecast
Noncore thru PGE xchg	2035														forecast
Core from SCG	2036														forecast
Noncore from SCG	2036														forecast
Core from PGE xchg	2036														forecast
Noncore thru PGE xchg	2036														forecast
Core from SCG	2037														forecast
Noncore from SCG	2037														forecast
Core from PGE xchg	2037														forecast
Noncore thru PGE xchg	2037														forecast
Core from SCG	2038														forecast
Noncore from SCG	2038														forecast
Core from PGE xchg	2038														forecast
Noncore thru PGE xchg	2038														forecast
Core from SCG	2039														forecast
Noncore from SCG	2039														forecast
Core from PGE xchg	2039														forecast
Noncore thru PGE xchg	2039														forecast
Core from SCG	2040														forecast
Noncore from SCG	2040														forecast
Core from PGE xchg	2040														forecast
Noncore thru PGE xchg	2040														forecast

Mdth/year	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	actual/ forecast
Core from SCG	2024														forecast
Noncore from SCG	2024														forecast
Core from PGE xchg	2024														forecast
Noncore thru PGE xchg	2024														forecast
Core from SCG	2025														forecast
Noncore from SCG	2025														forecast
Core from PGE xchg	2025														forecast
Noncore thru PGE xchg	2025														forecast
Core from SCG	2026														forecast
Noncore from SCG	2026														forecast
Core from PGE xchg	2026														forecast
Noncore thru PGE xchg	2026														forecast
Core from SCG	2027														forecast
Noncore from SCG	2027														forecast
Core from PGE xchg	2027														forecast
Noncore thru PGE xchg	2027														forecast
Core from SCG	2028														forecast
Noncore from SCG	2028														forecast
Core from PGE xchg	2028														forecast
Noncore thru PGE xchg	2028														forecast
Core from SCG	2029														forecast
Noncore from SCG	2029														forecast
Core from PGE xchg	2029														forecast
Noncore thru PGE xchg	2029														forecast
Core from SCG	2030														forecast
Noncore from SCG	2030														forecast
Core from PGE xchg	2030														forecast
Noncore thru PGE xchg	2030														forecast
Core from SCG	2031														forecast
Noncore from SCG	2031														forecast
Core from PGE xchg	2031														forecast
Noncore thru PGE xchg	2031														forecast
Core from SCG	2032														forecast
Noncore from SCG	2032														forecast
Core from PGE xchg	2032														forecast
Noncore thru PGE xchg	2032														forecast
Core from SCG	2033														forecast
Noncore from SCG	2033														forecast
Core from PGE xchg	2033														forecast
Noncore thru PGE xchg	2033														forecast
Core from SCG	2034														forecast
Noncore from SCG	2034														forecast
Core from PGE xchg	2034														forecast
Noncore thru PGE xchg	2034														forecast
Core from SCG	2035														forecast
Noncore from SCG	2035														forecast
Core from PGE xchg	2035														forecast
Noncore thru PGE xchg	2035														forecast
Core from SCG	2036														forecast
Noncore from SCG	2036														forecast
Core from PGE xchg	2036														forecast
Noncore thru PGE xchg	2036														forecast
Core from SCG	2037														forecast
Noncore from SCG	2037														forecast
Core from PGE xchg	2037														forecast
Noncore thru PGE xchg	2037														forecast
Core from SCG	2038														forecast
Noncore from SCG	2038														forecast
Core from PGE xchg	2038														forecast
Noncore thru PGE xchg	2038														forecast
Core from SCG	2039														forecast
Noncore from SCG	2039														forecast
Core from PGE xchg	2039														forecast
Noncore thru PGE xchg	2039														forecast
Core from SCG	2040														forecast
Noncore from SCG	2040														forecast
Core from PGE xchg	2040														forecast
Noncore thru PGE xchg	2040														forecast

**CITY OF VERNON**



**City of Vernon Wholesale Gas Demand**  
**2024 CALIFORNIA GAS REPORT WORKPAPERS**

The forecasted wholesale gas demand for 2024 was provided by the City of Vernon, adjusted by the forecasted migration of customers from SoCalGas to the City of Vernon through 2040. The breakdown between Core, Noncore, and Utility (or Electric Generation) is based upon historical demand.

2024CGR City of Vernon  
 Split Core & NonCore demand, Excl MGS  
 3/14/2024

Core/ NonCore Split	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual MDth	Dec Average Day Dth/day
C	2024														
N	2024														
C	2025														
N	2025														
C	2026														
N	2026														
C	2027														
N	2027														
C	2028														
N	2028														
C	2029														
N	2029														
C	2030														
N	2030														
C	2031														
N	2031														
C	2032														
N	2032														
C	2033														
N	2033														
C	2034														
N	2034														
C	2035														
N	2035														
C	2036														
N	2036														
C	2037														
N	2037														
C	2038														
N	2038														
C	2039														
N	2039														
C	2040														
N	2040														

**ECOGAS**

**ECOGAS Mexico, S. de R.L. de C.V. International/Wholesale Gas Demand**

**2024 CALIFORNIA GAS REPORT WORKPAPERS**

The forecasted international wholesale gas demand by Ecogas is shown below summarized by year and month for 2024 through 2040. The forecasted demand is expected to increase over the forecast period.

SoCalGas 2024CGR  
ECOGAS Demand Forecast Mdth  
v5-1-2024

YEAR	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	2024 CGR Forecast Mdth/ year
2015													
2016													
2017													
2018													
2019													
2020													
2021													
2022													
2023													
2024													
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
2035													
2036													
2037													
2038													
2039													
2040													

## **CORE PEAK DAY FORECAST**

**2024-CGR Sales + Transport + Exchange for Month of DECEMBER**  
**(units=Mdth/Day)**  
**"1-in-2" Likelihood Cold Day Temperature**

No. "CGR_B"	CLASS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2035	2040
		----	----	----	----	----	----	----	----	----	----	----
1	RESIDEN	1781.4	1729.3	1710.7	1690.9	1674.9	1658.4	1648.7	1638.9	1631.0	1602.3	1607.2
2	Com G10	439.7	425.0	418.0	408.7	402.7	396.2	390.6	385.8	382.4	363.5	352.4
2	GAC <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	GEN <u>2/</u>	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
3	Ind G10	67.6	66.1	65.5	64.6	64.1	63.4	62.9	62.4	61.9	60.1	58.1
4	NGV <u>2/</u>	48.5	51.4	54.4	57.5	60.9	64.1	67.3	70.4	73.3	82.3	87.3
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total:	MDth/day	2339.7	2274.4	2251.1	2224.3	2205.0	2184.8	2172.1	2160.0	2151.1	2110.8	2107.6
	MMcf/day <u>4/</u>	2267.8	2204.5	2182.0	2155.9	2137.3	2117.7	2105.4	2093.7	2085.0	2045.9	2042.9
	Days per Mo	31	31	31	31	31	31	31	31	31	31	31
	Pk-Day Temp. (deg-F) =	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
	Hdd: December--AvgYr =	277.3	275.8	274.2	272.6	271.1	269.5	267.9	266.4	264.8	258.6	250.8
	Hdd: December--ColdYr =	328.2	326.7	325.1	323.5	322.0	320.4	318.9	317.3	315.7	309.5	301.7
	"Wkday/Wkend" Factor-Res:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	"Wkday/Wkend" Factor-NonRes:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Use this Methodology for the 2024-CGR Res and C&I Calculations

Notes:

1/ = ("Avg-Dec" / 31 days) + {(["Cold-Dec" - "Avg-Dec"] / ["Cold-Dec-Hdd" - "Avg-Dec-Hdd"]]

\* [(65 degF - 45.7 degF) - (Avg-Dec-Hdd / 31 days)]}

2/ "Non-temperature" sensitive market segment.

3/ "Weekday/Weekend" Factor applies to the "raw" estimate.

4/ Dth/Mcf= 1.0317

**2024-CGR Sales + Transport + Exchange for Month of DECEMBER**  
**(units=Mdth/Day)**  
**"1-in-10" Likelihood Cold Day Temperature**

No. "CGR_B"	CLASS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2035	2040
		----	----	----	----	----	----	----	----	----	----	----
1	RESIDEN	2025.2	1967.6	1947.7	1926.7	1909.5	1891.8	1880.9	1870.0	1860.8	1827.5	1826.6
2	Com G10	487.3	472.0	464.4	454.5	447.9	440.9	434.7	429.3	425.3	404.3	390.7
2	GAC <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	GEN <u>2/</u>	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
3	Ind G10	71.7	70.2	69.6	68.6	68.1	67.4	66.9	66.3	65.8	63.8	61.8
4	NGV <u>2/</u>	48.5	51.4	54.4	57.5	60.9	64.1	67.3	70.4	73.3	82.3	87.3
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total:	MDth/day	2635.2	2563.8	2538.6	2510.0	2488.9	2466.9	2452.4	2438.5	2427.8	2380.6	2369.1
	MMcf/day <u>4/</u>	2554.2	2485.0	2460.6	2432.8	2412.4	2391.1	2377.0	2363.6	2353.2	2307.4	2296.3
	Days per Mo	31	31	31	31	31	31	31	31	31	31	31
	Pk-Day Temp. (deg-F) =	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
	Hdd: December--AvgYr =	277.3	275.8	274.2	272.6	271.1	269.5	267.9	266.4	264.8	258.6	250.8
	Hdd: December--ColdYr =	328.2	326.7	325.1	323.5	322.0	320.4	318.9	317.3	315.7	309.5	301.7
	"Wkday/Wkend" Factor-Res:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	"Wkday/Wkend" Factor-NonRes:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Use this Methodology for the 2024-CGR Res and C&I Calculations

Notes:

- 1/ =("Avg-Dec" / 31 days ) + {(["Cold-Dec" - "Avg-Dec" ) / ("Cold-Dec-Hdd" - "Avg-Dec-Hdd")]  
\* [(65 degF - 42.3 degF) - (Avg-Dec-Hdd / 31 days)]}
- 2/ "Non-temperature" sensitive market segment.
- 3/ "Weekday/Weekend" Factor applies to the "raw" estimate.
- 4/ Dth/Mcf= 1.0317



**2024-CGR Sales + Transport + Exchange for Month of DECEMBER**  
**(units=Mdth/Day)**  
**"1-in-35" Likelihood Cold Day Temperature**

No. "CGR_B"	CLASS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2035	2040
		----	----	----	----	----	----	----	----	----	----	----
1	RESIDEN	2147.1	2086.7	2066.3	2044.6	2026.8	2008.5	1997.0	1985.5	1975.8	1940.1	1936.4
2	Com G10	511.1	495.5	487.6	477.4	470.5	463.2	456.7	451.1	446.8	424.7	409.9
2	GAC <u>2/</u>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	GEN <u>2/</u>	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
3	Ind G10	73.7	72.3	71.6	70.7	70.1	69.4	68.8	68.3	67.8	65.7	63.6
4	NGV <u>2/</u>	48.5	51.4	54.4	57.5	60.9	64.1	67.3	70.4	73.3	82.3	87.3
		=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	Total: MDth/day	2782.9	2708.4	2682.4	2652.8	2630.8	2607.9	2592.5	2577.8	2566.2	2515.5	2499.8
	MMcf/day <u>4/</u>	2697.4	2625.2	2600.0	2571.3	2550.0	2527.7	2512.9	2498.5	2487.3	2438.2	2423.0
	Days per Mo	31	31	31	31	31	31	31	31	31	31	31
	Pk-Day Temp. (deg-F) =	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
	Hdd: December--AvgYr =	277.3	275.8	274.2	272.6	271.1	269.5	267.9	266.4	264.8	258.6	250.8
	Hdd: December--ColdYr =	328.2	326.7	325.1	323.5	322.0	320.4	318.9	317.3	315.7	309.5	301.7
	"Wkday/Wkend" Factor-Res:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	"Wkday/Wkend" Factor-NonRes:	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Use this Methodology for the 2024-CGR Res and C&I Calculations

Notes:

1/ = ("Avg-Dec" / 31 days) + {(["Cold-Dec" - "Avg-Dec"] / ["Cold-Dec-Hdd" - "Avg-Dec-Hdd"]]

\* [(65 degF - 40.6 degF) - (Avg-Dec-Hdd / 31 days)]}

2/ "Non-temperature" sensitive market segment.

3/ "Weekday/Weekend" Factor applies to the "raw" estimate.

4/ Dth/Mcf = 1.0317

**2024-CGR Sales + Transport + Exchange for Month of DECEMBER**  
**(units=Mdth/Day)**  
**Temp=December, Average Year**

No. "CGR_CLASS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2035	2040
	----	----	----	----	----	----	----	----	----	----	----
1 Residen	32211.0	31005.2	30434.8	29828.8	29339.5	28838.5	28545.9	28253.0	28017.4	27173.4	27391.2
2 Com G10	9138.1	8717.6	8533.9	8281.9	8130.9	7964.7	7825.7	7710.2	7638.4	7189.0	7010.2
2 GAC	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2 GEN	72.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
3 Ind G10	1706.9	1662.9	1645.0	1617.2	1600.6	1582.4	1566.8	1550.6	1537.6	1482.4	1426.7
4 NGV	1504.9	1592.4	1685.2	1782.6	1886.6	1988.5	2087.2	2181.6	2270.8	2552.6	2706.7
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	44635	43058	42379	41590	41037	40454	40106	39775	39544	38477	38615

**2024-CGR Sales + Transport + Exchange for Month of DECEMBER**  
**(units=Mdth/Day)**  
**Temp=December, Cold Year**

No. "CGR_CLASS	2023	2024	2025	2026	2027	2028	2029	2030	2031	2035	2040
	----	----	----	----	----	----	----	----	----	----	----
1 Residen	35861.2	34573.0	33984.3	33360.1	32852.7	32333.7	32023.2	31712.4	31459.0	30545.0	30677.1
2 Com G10	9850.9	9421.3	9228.7	8967.8	8808.1	8633.3	8485.8	8361.9	8281.8	7800.4	7583.7
2 GAC	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2 GEN	72.9	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0
3 Ind G10	1768.4	1724.0	1705.8	1677.5	1660.5	1642.0	1626.0	1609.3	1596.0	1539.3	1481.7
4 NGV	1504.9	1592.4	1685.2	1782.6	1886.6	1988.5	2087.2	2181.6	2270.8	2552.6	2706.7
	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
	49059	47391	46684	45868	45288	44677	44302	43945	43687	42517	42529
<b>Mdth/Hdd</b>	86.9	85.1	84.6	84.0	83.5	83.0	82.4	81.9	81.4	79.3	76.9

# **WEATHER**

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# **Weather for SoCalGas: Heating Degree Days –Average and Cold Year Designs; and Winter Peak Day Design Temperatures**

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July 2024

## I. Overview

Southern California Gas Company’s service area extends from Fresno County to the Mexican border. To quantify the overall temperature experienced within this region, SoCalGas aggregates daily temperature recordings from fifteen U.S. Weather Bureau weather stations first into six temperature zones and then into one system average heating degree-day (“HDD”) figure. The table below lists weather station locations by temperature zones.

**Table 1**

Weather Stations by Temperature Zones and Weights

Temperature Zone	Weight	Station (After 10/31/2002)	Station (Before 11/1/2002)
1. High mountain	0.0058	Big Bear Lake	Lake Arrowhead
2. Low desert	0.0390	Palm Springs El Centro	Palm Springs Brawley
3. Coastal	0.1837	Los Angeles Airport Newport Beach Santa Barbara Airport	Los Angeles Airport Newport Beach Harbor Santa Barbara Airport
4. High desert	0.0741	Bakersfield Lancaster Airport Fresno	Bakersfield Airport Palmdale Visalia
5. Interior valleys	0.3856	Burbank Pasadena Ontario Rialto	Burbank Pasadena Pomona Cal Poly Redlands
6. Basin	0.3119	Los Angeles Civic Center Santa Ana	Los Angeles Civic Center/ Downtown-USC Santa Ana

SoCalGas uses 65° Fahrenheit to calculate the number of HDDs. One heating degree day is accumulated for each degree that the daily average is below 65° Fahrenheit. To arrive at the HDD figure for each temperature zone, SoCalGas uses the simple average of the weather station HDDs in that temperature zone. To arrive at the system average HDDs figure for its entire service area, SoCalGas weights the HDD figure for each zone using the proportion of gas customers within each temperature zone based on December 2023 customer counts. These weights have been used in calculating the data shown from January 2004 to December 2023.

Daily weather temperatures are from the National Climatic Data Center or from preliminary data that SoCalGas captures each day for various individual weather stations as well as for its system average values of HDD. Annual and monthly HDDs for the entire service area from 2004 to 2023 are listed in Table 2, below.

**Table 2**  
**Calendar Month Heating Degree-Days (Jan. 2004 through Dec. 2023)**

<b>Year</b>	<b><u>Month</u></b>												<b><u>Total</u></b> <b><u>"Cal-Year"</u></b>
	<b><u>Jan</u></b>	<b><u>Feb</u></b>	<b><u>Mar</u></b>	<b><u>Apr</u></b>	<b><u>May</u></b>	<b><u>Jun</u></b>	<b><u>Jul</u></b>	<b><u>Aug</u></b>	<b><u>Sep</u></b>	<b><u>Oct</u></b>	<b><u>Nov</u></b>	<b><u>Dec</u></b>	
<b>2004</b>	293	302	86	85	17	8	3	2	3	74	227	293	<b>1392</b>
<b>2005</b>	288	209	177	116	35	10	4	1	9	43	99	234	<b>1225</b>
<b>2006</b>	273	200	338	163	28	3	0	1	5	36	105	279	<b>1432</b>
<b>2007</b>	348	216	126	116	49	16	1	1	12	36	126	354	<b>1401</b>
<b>2008</b>	347	263	148	124	76	8	1	0	2	24	75	334	<b>1402</b>
<b>2009</b>	197	259	195	135	18	15	3	4	1	44	118	321	<b>1310</b>
<b>2010</b>	254	222	174	163	72	14	8	9	13	42	203	270	<b>1445</b>
<b>2011</b>	252	307	213	105	80	27	2	4	6	39	207	350	<b>1590</b>
<b>2012</b>	223	237	223	118	38	11	6	1	1	16	111	301	<b>1286</b>
<b>2013</b>	330	264	126	66	16	4	1	2	2	44	103	257	<b>1215</b>
<b>2014</b>	142	148	90	76	19	4	0	1	1	5	66	224	<b>776</b>
<b>2015</b>	182	94	64	67	69	4	1	0	1	4	163	317	<b>966</b>
<b>2016</b>	282	112	113	54	45	7	1	1	3	14	111	270	<b>1014</b>
<b>2017</b>	321	208	100	44	50	6	1	0	4	12	51	175	<b>972</b>
<b>2018</b>	155	211	181	70	56	6	0	0	1	10	79	248	<b>1020</b>
<b>2019</b>	263	349	165	53	76	9	2	1	3	23	125	265	<b>1336</b>
<b>2020</b>	242	175	205	108	11	3	2	2	1	10	149	238	<b>1146</b>
<b>2021</b>	259	180	232	76	37	7	0	1	9	41	74	338	<b>1254</b>
<b>2022</b>	240	204	136	75	40	3	1	0	3	13	190	303	<b>1209</b>
<b>2023</b>	341	313	298	125	76	20	2	0	2	14	85	174	<b>1450</b>
<b>20-Yr-Avg (Jan 2004-Dec 2023)</b>													
<b>Avg.</b>	261.6	223.7	169.4	96.8	45.5	9.4	1.9	1.5	4.2	27.4	123.4	277.4	<b>1242.1</b>
<b>St.Dev.</b>	60.8	65.8	70.2	35.3	23.3	6.2	2.1	2.1	3.8	18.1	50.9	52.3	<b>206.5</b>
<b>Min.</b>	141.8	94.2	63.8	43.8	11.0	3.2	0.1	0.1	0.7	4.3	50.5	173.7	<b>776.1</b>
<b>Max.</b>	348.2	349.4	338.0	162.7	80.2	26.6	8.4	9.3	13.5	73.7	227.1	354.5	<b>1590.3</b>

## II. Calculations to Define Our Average-Temperature Year

The simple average of the 20-year period (January 2004 through December 2023) was used to represent the Average Year total and the individual monthly values for HDD. In this CGR, the standard deviation has been calculated using an approach that compensates for the annual HDD values for the years 2014-2018 in SoCalGas' service territory being dramatically lower than in any preceding year going back to 1950<sup>1</sup>. A regression with a time trend and a dummy variable for the years 2014-2018 has been used to estimate a shift in the level of annual HDD that occurred beginning in 2014. A dummy variable takes the value one for some observations to indicate the presence of an effect or membership in a group and zero for the remaining observations. Estimating the effect of the dummy variable gives an estimate of that effect or the impact of membership in that group. A dummy variable is used here to estimate the average effect on annual HDD of a given year having membership in the group of years 2014-2018. The dataset is SoCalGas system-wide annual HDD for the years 2004-2023. The regression equation is:

$$HDD_t = \alpha + \beta * t + \beta_{2014-2018} * D_{2014-2018} + \varepsilon$$

where  $D_{2014-2018}$  is a dummy variable for the years 2014-2018 and  $\beta_{2014-2018}$  is the corresponding dummy coefficient. This regression equation estimates average HDD over the period 2004-2023 controlling for time trends in HDD and the warm weather regime of years 2014-2018. It's important to note that p-value for the estimate of  $\beta_{2014-2018}$  is about than 0.001%, indicating an extremely low probability that membership in the group of years 2014-2018 had no effect on annual HDDs. Please see table 3 below for the full regression output.

<sup>1</sup> The same approach to control warm weather regime from 2014 to 2018 when estimating standard deviation was used in CGR 2020 and CGR 2022.



**Table 3**

Dummy Regression for Calculation of Heating Degree-Day Standard Deviation

<i>Regression Statistics</i>	
Multiple R	0.85111229
R Square	0.724392131
Adjusted R Square	0.691967675
Standard Error	114.5860946
Observations	20

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	2	586671.3324	293335.6662	22.34091908	1.74775E-05
Residual	17	223209.5424	13129.97308		
Total	19	809880.8748			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>
Intercept	1388.857673	53.32595308	26.04468542	3.84904E-15
Time	-5.093776944	4.589567294	-1.109859954	0.28251259
Regime Dummy	-373.0627838	61.11768992	-6.104006618	1.16908E-05

The dummy variable’s estimated effect,  $\beta_{2014-2018}$ , is subtracted from the actual annual HDD data for years 2014-2018 to adjust the data to remove the level shift. The standard deviation has been calculated using this adjusted dataset. This standard deviation has been used to design the two Cold Years based on a “1-in-10” and “1-in-35” chance,  $c$ , that the respective annual “Cold Year”  $hdd_c$  value would be exceeded.

A probability model for the annual HDD is based on a t-Distribution with N-1 degrees of freedom, where N is the number of years of HDD data we use,  $\mu$  is the average of the last 20 years of HDD, and  $S_{20}$  is the average of the standard deviations of the 20 most recent 20-year periods:

$$U = (HDD_y - \mu)/S_{20}, \text{ has a t-Distribution with N-1 degrees of freedom.}$$

### III. Calculating the Cold-Temperature Year Weather Designs

#### Cold Year HDD Weather Designs

For SoCalGas, cold-temperature-year HDD weather designs are developed with a 1-in-35 annual chance of occurrence. In terms of probabilities this can be expressed as the following for a “1-in-35” cold-year HDD value in equation 1 and a “1-in-10” cold-year HDD value in equation 2, with Annual HDD as the random variable:

(1)  $\text{Prob} \{ \text{Annual HDD} > \text{“1-in-35” Cold-Yr HDD} \} = 1/35 = 0.0286$

(2)  $\text{Prob} \{ \text{Annual HDD} > \text{“1-in-10” Cold-Yr HDD} \} = 1/10 = 0.1000$

An area of 0.0286 under one tail of the T-Distribution translates to 2.025 standard deviations above an average-year based on a t-statistic with 19 degrees of freedom. Using the standard deviation calculated as described earlier, which is 112.5 HDD, these equations yield values of about 1,470 HDD for a “1-in-35” cold year and 1,391 HDDs for a “1-in-10” cold year. (An area of 0.1000 under one tail of the T-Distribution translates to 1.328 standard deviations above an average-year based on a t-statistic with 19 degrees of freedom.) For example, the “1-in-35” cold-year HDD is calculated as follows:

$$(3) \quad \text{Cold-year HDD} = 1,470, \text{ which equals approximately } 1,242 \text{ average-year HDDs} + 2.025 * 112.5$$

Table 4 shows monthly HDD figures for “1-in-35” cold year, “1-in-10” cold year and, average year temperature designs. The monthly average-temperature-year HDDs are calculated from weighted monthly HDDs from 2004 to 2023, as shown as the bottom of Table 2, above. For example, the average-year December value of 277.3 HDD equals the simple average of the twenty December HDD figures from 2004 to 2023. SoCalGas calculates the cold--temperature-year monthly HDD values using the same distribution of average-year HDDs. For example, 22.3 percent (277.3 / 1242) of average-temperature-year HDDs occurred in December, so the estimated number of HDDs during December for a 1-in-35 cold-year is equal to 1,470 HDDs multiplied by 22.3 percent, or 328.2 HDDs.

**Table 4**

Calendar Month Heating Degree-Day Designs

	<u>Cold</u>		<u>Average</u>	<u>Hot</u>	
	<u>1-in-35 Design</u>	<u>1-in-10 Design</u>		<u>1-in-10 Design</u>	<u>1-in-35 Design</u>
<b>January</b>	309.6	293.0	261.6	230.2	213.6
<b>February</b>	264.7	250.5	223.7	196.8	182.6
<b>March</b>	200.5	189.7	169.4	149.1	138.3
<b>April</b>	114.6	108.4	96.8	85.2	79.0
<b>May</b>	53.9	51.0	45.5	40.0	37.1
<b>June</b>	11.1	10.5	9.4	8.2	7.6
<b>July</b>	2.3	2.2	1.9	1.7	1.6
<b>August</b>	1.8	1.7	1.5	1.3	1.2
<b>September</b>	5.0	4.7	4.2	3.7	3.4
<b>October</b>	32.4	30.6	27.4	24.1	22.3
<b>November</b>	146.0	138.2	123.4	108.6	100.7
<b>December</b>	328.2	310.6	277.3	244.1	226.4
	1470	1391	1242	1093	1014

#### **IV. Adjusting Forecasted HDDs for a Climate-Change Trend**

SoCalGas incorporates a climate-change warming trend that reduces HDDs by 7 HDDs per year over the forecast period. The annual reduction is based on the latest twenty-year trend in 20-year-averaged HDDs. That is, they are based on the observed trend in changes starting with average HDDs for years 1985-2004, then 1986-2005, 1987-2006...and ending with the average HDDs for years 2004-2023.

Table 5 below shows system HDDs, rolling 20-year averaged HDDs, and the annual changes in those rolling 20-year averages. The actual average annual change is -7.0 HDDs for the most recent twenty of the 20-year averages (with ending years from 2004 through 2023). A simple “ordinary least squares” regression-fitted time trend (using Microsoft Excel’s “LINEST” function) was applied to those same annual changes, resulting in a fitted estimation of -8.2 HDDs per year. Based on the fitted trend, it was decided to decrease average-year and cold-year forecasted HDDs by 7 HDDs per year, starting with the first forecast year of 2024.

**Table 5**

**Average Annual Changes in 20-Year Averaged Heating-Degree Days**

Average Annual Changes in 20-Year-Averaged HDDs		
	Regression	Actual
	Fitted trend	
20 Year: (2004-2023)	-8.2	<b>-7.0</b>

Year	SCG System HDDs	20-year averaged HDDs	Annual change in 20-year averaged HDDs
1985	1337		
1985	1589		
1986	1094		
1987	1504		
1988	1371		
1989	1361		
1990	1446		
1991	1407		
1992	1255		
1993	1213		
1994	1468		
1995	1245		
1996	1188		
1997	1157		
1998	1569		
1999	1538		
2000	1369		
2001	1689		
2002	1499		
2003	1339	1381.9	
2004	1392	1384.6	2.7
2005	1225	1366.4	-18.2
2006	1432	1383.4	16.9
2007	1401	1378.3	-5.1
2008	1402	1379.8	1.5
2009	1310	1377.2	-2.6
2010	1445	1377.2	0.0
2011	1590	1386.3	9.2
2012	1286	1387.9	1.6
2013	1215	1388.0	0.1
2014	776	1353.4	-34.6
2015	966	1339.5	-14.0
2016	1014	1330.7	-8.7
2017	972	1321.5	-9.2
2018	1020	1294.0	-27.5
2019	1336	1283.9	-10.1
2020	1146	1272.8	-11.1
2021	1254	1251.0	-21.8
2022	1209	1236.5	-14.5
2023	1450	1242.1	5.6

Below tables 6.1 – 6.5 show the complete monthly weather design:

**Table 6.1**

Calendar Month Heating Degree-Day Designs with Climate-Change Trend

	<b>Cold</b>		<b>Average</b>	<b>Hot</b>	
	<b>1-in-35 Design</b>	<b>1-in-10 Design</b>		<b>1-in-10 Design</b>	<b>1-in-35 Design</b>
Jan-2024	308.1	291.5	260.1	228.7	212.1
Feb-2024	263.5	249.3	222.4	195.6	181.4
Mar-2024	199.5	188.7	168.4	148.1	137.3
Apr-2024	114.1	107.9	96.3	84.7	78.5
May-2024	53.6	50.7	45.2	39.8	36.9
Jun-2024	11.0	10.4	9.3	8.2	7.6
Jul-2024	2.3	2.1	1.9	1.7	1.6
Aug-2024	1.8	1.7	1.5	1.3	1.2
Sep-2024	4.9	4.7	4.2	3.7	3.4
Oct-2024	32.2	30.5	27.2	23.9	22.2
Nov-2024	145.3	137.5	122.7	107.9	100.0
Dec-2024	326.7	309.0	275.8	242.5	224.9
Jan-2025	306.7	290.0	258.6	227.2	210.6
Feb-2025	262.2	248.0	221.2	194.3	180.1
Mar-2025	198.6	187.8	167.5	147.1	136.4
Apr-2025	113.5	107.3	95.7	84.1	78.0
May-2025	53.3	50.4	45.0	39.5	36.6
Jun-2025	11.0	10.4	9.2	8.1	7.5
Jul-2025	2.3	2.1	1.9	1.7	1.5
Aug-2025	1.8	1.7	1.5	1.3	1.2
Sep-2025	4.9	4.7	4.1	3.6	3.4
Oct-2025	32.1	30.3	27.1	23.8	22.0
Nov-2025	144.6	136.8	122.0	107.2	99.3
Dec-2025	325.1	307.5	274.2	240.9	223.3
Jan-2026	305.2	288.5	257.2	225.8	209.1
Feb-2026	261.0	246.7	219.9	193.1	178.8
Mar-2026	197.6	186.8	166.5	146.2	135.4
Apr-2026	113.0	106.8	95.2	83.6	77.4
May-2026	53.1	50.2	44.7	39.3	36.4
Jun-2026	10.9	10.3	9.2	8.1	7.5
Jul-2026	2.2	2.1	1.9	1.7	1.5
Aug-2026	1.7	1.7	1.5	1.3	1.2
Sep-2026	4.9	4.6	4.1	3.6	3.4
Oct-2026	31.9	30.2	26.9	23.6	21.9
Nov-2026	143.9	136.1	121.3	106.5	98.6
Dec-2026	323.5	305.9	272.6	239.4	221.7

**Table 6.2**

Calendar Month Heating Degree-Day Designs with Climate-Change Trend

	<b>Cold</b>		<b>Average</b>	<b>Hot</b>	
	<b>1-in-35 Design</b>	<b>1-in-10 Design</b>		<b>1-in-10 Design</b>	<b>1-in-35 Design</b>
Jan-2027	303.7	287.1	255.7	224.3	207.7
Feb-2027	259.7	245.5	218.6	191.8	177.6
Mar-2027	196.7	185.9	165.6	145.2	134.5
Apr-2027	112.4	106.3	94.6	83.0	76.9
May-2027	52.8	49.9	44.5	39.0	36.1
Jun-2027	10.9	10.3	9.1	8.0	7.4
Jul-2027	2.2	2.1	1.9	1.6	1.5
Aug-2027	1.7	1.6	1.5	1.3	1.2
Sep-2027	4.9	4.6	4.1	3.6	3.3
Oct-2027	31.8	30.0	26.7	23.5	21.7
Nov-2027	143.3	135.4	120.6	105.8	98.0
Dec-2027	322.0	304.3	271.1	237.8	220.2
Jan-2028	302.2	285.6	254.2	222.8	206.2
Feb-2028	258.4	244.2	217.4	190.5	176.3
Mar-2028	195.7	184.9	164.6	144.3	133.5
Apr-2028	111.9	105.7	94.1	82.5	76.3
May-2028	52.6	49.7	44.2	38.8	35.9
Jun-2028	10.8	10.2	9.1	8.0	7.4
Jul-2028	2.2	2.1	1.9	1.6	1.5
Aug-2028	1.7	1.6	1.5	1.3	1.2
Sep-2028	4.8	4.6	4.1	3.6	3.3
Oct-2028	31.6	29.9	26.6	23.3	21.6
Nov-2028	142.6	134.7	119.9	105.1	97.3
Dec-2028	320.4	302.8	269.5	236.2	218.6
Jan-2029	300.8	284.1	252.7	221.4	204.7
Feb-2029	257.2	243.0	216.1	189.3	175.1
Mar-2029	194.7	184.0	163.6	143.3	132.6
Apr-2029	111.3	105.2	93.5	81.9	75.8
May-2029	52.3	49.4	44.0	38.5	35.6
Jun-2029	10.8	10.2	9.0	7.9	7.3
Jul-2029	2.2	2.1	1.9	1.6	1.5
Aug-2029	1.7	1.6	1.4	1.3	1.2
Sep-2029	4.8	4.6	4.1	3.6	3.3
Oct-2029	31.5	29.7	26.4	23.2	21.4
Nov-2029	141.9	134.0	119.2	104.4	96.6
Dec-2029	318.9	301.2	267.9	234.7	217.0
Jan-2030	299.3	282.6	251.3	219.9	203.2
Feb-2030	255.9	241.7	214.9	188.0	173.8
Mar-2030	193.8	183.0	162.7	142.4	131.6
Apr-2030	110.8	104.6	93.0	81.4	75.2
May-2030	52.1	49.2	43.7	38.2	35.4
Jun-2030	10.7	10.1	9.0	7.9	7.3

**Table 6.3**

Calendar Month Heating Degree-Day Designs with Climate-Change Trend

	<b>Cold</b>		<b>Average</b>	<b>Hot</b>	
	<b>1-in-35 Design</b>	<b>1-in-10 Design</b>		<b>1-in-10 Design</b>	<b>1-in-35 Design</b>
Jul-2030	2.2	2.1	1.8	1.6	1.5
Aug-2030	1.7	1.6	1.4	1.3	1.2
Sep-2030	4.8	4.5	4.0	3.5	3.3
Oct-2030	31.3	29.6	26.3	23.0	21.3
Nov-2030	141.2	133.3	118.5	103.7	95.9
Dec-2030	317.3	299.7	266.4	233.1	215.5
Jan-2031	297.8	281.2	249.8	218.4	201.8
Feb-2031	254.7	240.4	213.6	186.8	172.5
Mar-2031	192.8	182.1	161.7	141.4	130.6
Apr-2031	110.2	104.1	92.5	80.8	74.7
May-2031	51.8	48.9	43.4	38.0	35.1
Jun-2031	10.6	10.1	8.9	7.8	7.2
Jul-2031	2.2	2.1	1.8	1.6	1.5
Aug-2031	1.7	1.6	1.4	1.2	1.2
Sep-2031	4.8	4.5	4.0	3.5	3.2
Oct-2031	31.2	29.4	26.1	22.8	21.1
Nov-2031	140.5	132.6	117.8	103.0	95.2
Dec-2031	315.7	298.1	264.8	231.6	213.9
Jan-2032	296.3	279.7	248.3	216.9	200.3
Feb-2032	253.4	239.2	212.3	185.5	171.3
Mar-2032	191.9	181.1	160.8	140.5	129.7
Apr-2032	109.7	103.5	91.9	80.3	74.1
May-2032	51.5	48.7	43.2	37.7	34.8
Jun-2032	10.6	10.0	8.9	7.8	7.2
Jul-2032	2.2	2.1	1.8	1.6	1.5
Aug-2032	1.7	1.6	1.4	1.2	1.1
Sep-2032	4.8	4.5	4.0	3.5	3.2
Oct-2032	31.0	29.3	26.0	22.7	21.0
Nov-2032	139.8	131.9	117.1	102.3	94.5
Dec-2032	314.2	296.5	263.3	230.0	212.3
Jan-2033	294.9	278.2	246.8	215.5	198.8
Feb-2033	252.1	237.9	211.1	184.2	170.0
Mar-2033	190.9	180.1	159.8	139.5	128.7
Apr-2033	109.1	103.0	91.4	79.8	73.6
May-2033	51.3	48.4	42.9	37.5	34.6
Jun-2033	10.5	9.9	8.8	7.7	7.1
Jul-2033	2.2	2.0	1.8	1.6	1.5
Aug-2033	1.7	1.6	1.4	1.2	1.1
Sep-2033	4.7	4.5	4.0	3.5	3.2
Oct-2033	30.8	29.1	25.8	22.5	20.8
Nov-2033	139.1	131.2	116.4	101.6	93.8
Dec-2033	312.6	295.0	261.7	228.4	210.8

**Table 6.4**

Calendar Month Heating Degree-Day Designs with Climate-Change Trend

	<b>Cold</b>		<b>Average</b>	<b>Hot</b>	
	<b>1-in-35 Design</b>	<b>1-in-10 Design</b>		<b>1-in-10 Design</b>	<b>1-in-35 Design</b>
Jan-2034	293.4	276.7	245.4	214.0	197.3
Feb-2034	250.9	236.6	209.8	183.0	168.8
Mar-2034	190.0	179.2	158.9	138.6	127.8
Apr-2034	108.6	102.4	90.8	79.2	73.0
May-2034	51.0	48.1	42.7	37.2	34.3
Jun-2034	10.5	9.9	8.8	7.7	7.1
Jul-2034	2.2	2.0	1.8	1.6	1.4
Aug-2034	1.7	1.6	1.4	1.2	1.1
Sep-2034	4.7	4.4	3.9	3.4	3.2
Oct-2034	30.7	28.9	25.7	22.4	20.6
Nov-2034	138.4	130.5	115.7	100.9	93.1
Dec-2034	311.0	293.4	260.1	226.9	209.2
Jan-2035	291.9	275.3	243.9	212.5	195.9
Feb-2035	249.6	235.4	208.6	181.7	167.5
Mar-2035	189.0	178.2	157.9	137.6	126.8
Apr-2035	108.0	101.9	90.3	78.7	72.5
May-2035	50.8	47.9	42.4	37.0	34.1
Jun-2035	10.4	9.8	8.7	7.6	7.0
Jul-2035	2.1	2.0	1.8	1.6	1.4
Aug-2035	1.7	1.6	1.4	1.2	1.1
Sep-2035	4.7	4.4	3.9	3.4	3.1
Oct-2035	30.5	28.8	25.5	22.2	20.5
Nov-2035	137.7	129.8	115.0	100.2	92.4
Dec-2035	309.5	291.8	258.6	225.3	207.7
Jan-2036	290.4	273.8	242.4	211.0	194.4
Feb-2036	248.4	234.1	207.3	180.5	166.2
Mar-2036	188.1	177.3	157.0	136.6	125.9
Apr-2036	107.5	101.3	89.7	78.1	72.0
May-2036	50.5	47.6	42.2	36.7	33.8
Jun-2036	10.4	9.8	8.7	7.5	7.0
Jul-2036	2.1	2.0	1.8	1.5	1.4
Aug-2036	1.7	1.6	1.4	1.2	1.1
Sep-2036	4.7	4.4	3.9	3.4	3.1
Oct-2036	30.4	28.6	25.4	22.1	20.3
Nov-2036	137.0	129.1	114.3	99.5	91.7
Dec-2036	307.9	290.3	257.0	223.7	206.1
Jan-2037	289.0	272.3	240.9	209.6	192.9
Feb-2037	247.1	232.9	206.0	179.2	165.0
Mar-2037	187.1	176.3	156.0	135.7	124.9
Apr-2037	107.0	100.8	89.2	77.6	71.4
May-2037	50.3	47.4	41.9	36.5	33.6
Jun-2037	10.3	9.7	8.6	7.5	6.9



**Table 6.5**

Calendar Month Heating Degree-Day Designs with Climate-Change Trend

	<b>Cold</b>		<b>Average</b>	<b>Hot</b>	
	<b>1-in-35 Design</b>	<b>1-in-10 Design</b>		<b>1-in-10 Design</b>	<b>1-in-35 Design</b>
Jul-2037	2.1	2.0	1.8	1.5	1.4
Aug-2037	1.7	1.6	1.4	1.2	1.1
Sep-2037	4.6	4.4	3.9	3.4	3.1
Oct-2037	30.2	28.5	25.2	21.9	20.2
Nov-2037	136.3	128.5	113.6	98.8	91.0
Dec-2037	306.4	288.7	255.4	222.2	204.5
Jan-2038	287.5	270.8	239.5	208.1	191.4
Feb-2038	245.8	231.6	204.8	177.9	163.7
Mar-2038	186.1	175.4	155.1	134.7	124.0
Apr-2038	106.4	100.3	88.6	77.0	70.9
May-2038	50.0	47.1	41.7	36.2	33.3
Jun-2038	10.3	9.7	8.6	7.4	6.8
Jul-2038	2.1	2.0	1.8	1.5	1.4
Aug-2038	1.6	1.5	1.4	1.2	1.1
Sep-2038	4.6	4.3	3.8	3.3	3.1
Oct-2038	30.1	28.3	25.0	21.8	20.0
Nov-2038	135.6	127.8	113.0	98.2	90.3
Dec-2038	304.8	287.2	253.9	220.6	203.0
Jan-2039	286.0	269.4	238.0	206.6	190.0
Feb-2039	244.6	230.3	203.5	176.7	162.4
Mar-2039	185.2	174.4	154.1	133.8	123.0
Apr-2039	105.9	99.7	88.1	76.5	70.3
May-2039	49.8	46.9	41.4	35.9	33.0
Jun-2039	10.2	9.6	8.5	7.4	6.8
Jul-2039	2.1	2.0	1.7	1.5	1.4
Aug-2039	1.6	1.5	1.4	1.2	1.1
Sep-2039	4.6	4.3	3.8	3.3	3.0
Oct-2039	29.9	28.2	24.9	21.6	19.9
Nov-2039	134.9	127.1	112.3	97.5	89.6
Dec-2039	303.2	285.6	252.3	219.0	201.4
Jan-2040	284.5	267.9	236.5	205.1	188.5
Feb-2040	243.3	229.1	202.2	175.4	161.2
Mar-2040	184.2	173.5	153.1	132.8	122.1
Apr-2040	105.3	99.2	87.5	75.9	69.8
May-2040	49.5	46.6	41.1	35.7	32.8
Jun-2040	10.2	9.6	8.5	7.3	6.7
Jul-2040	2.1	2.0	1.7	1.5	1.4
Aug-2040	1.6	1.5	1.4	1.2	1.1
Sep-2040	4.6	4.3	3.8	3.3	3.0
Oct-2040	29.8	28.0	24.7	21.5	19.7
Nov-2040	134.2	126.4	111.6	96.8	88.9
Dec-2040	301.7	284.0	250.8	217.5	199.8

## V. Calculating the Peak-Day Design Temperature

SoCalGas' 1-in-35 Peak-Day design temperature of 40.6 degrees Fahrenheit, denoted "Deg-F," is determined from a statistical analysis of observed annual minimum daily system average temperatures constructed from daily temperature recordings from the fifteen U.S. Weather Bureau weather stations discussed above. Since we have a time series of daily data by year, the following notation will be used for the remainder of this discussion:

(1)  $AVG_{y,d}$  = system avg value of temperature for calendar year "y" and day "d".

The calendar year, y, can range from 1950 through 2023, while the day, d, can range from 1 to 365, for non-leap years, or from 1 to 366 for leap years. The "upper" value for the day, d, thus depends on the calendar year, y, and will be denoted by  $n(y)=365$ , or 366, respectively, when y is a non-leap year or a leap year.

For each calendar year, we calculate the following statistic from our series of daily system average temperatures defined in equation (1) above:

$$(2) \quad \text{Min}AVG_y = \min_{d=1}^{n(y)} \{ AVG_{y,d} \}, \text{ for } y=1950, 1951, \dots, 2023.$$

(The notation used in equation 2 means "For a particular year, y, list all the daily values of system average temperature for that year, then pick the smallest one.")

The resulting minimum annual temperatures are shown in Tables 7.1 and 7.2, below. Most of the minimum temperatures occur in the months of December, January, or February; for a few calendar years the minimums occurred in March or November.

The statistical methods we use to analyze this data employ software developed to fit three generic probability models: the Generalized Extreme Value (GEV) model, the Double-Exponential or GUMBEL (EV1) model and a 2-Parameter Students' T-Distribution (T-Dist) model. [The GEV and EV1 models have the same mathematical specification as those implemented in a DOS-based executable-only computer code that was developed by Richard L. Lehman and described in a paper published in the Proceedings of the Eighth Conference on Applied Climatology, January 17-22, 1993, Anaheim, California, pp. 270-273, by the American Meteorological Society, Boston, MA., with the title "Two Software Products for Extreme Value Analysis: System Overviews of ANYEX and DDEX." At the time he wrote the paper, Dr. Lehman was with the Climate Analysis Center, National Weather Service/NOAA in Washington, D.C., zip code 20233.] The Statistical Analysis System (SAS) procedure for nonlinear statistical model estimation (PROC MODEL) was used to do the calculations. Further, the calculation procedures were implemented to fit the probability models to observed *maxima* of data, like heating degrees. By recognizing that:

$$-\text{MinAVG}_y = -\min_{d=1}^{n(y)}\{\text{AVG}_{y,d}\} = \max_{d=1}^{n(y)}\{-\text{AVG}_{y,d}\}, \text{ for } y=1950, \dots, 2023$$

this same software, when applied to the *negative* of the minimum temperature data, yields appropriate probability model estimation results.

The calculations done to fit any one of the three probability models choose the parameter values that provide the “best fit” of the parametric probability model’s calculated cumulative distribution function (CDF) to the empirical cumulative distribution function (ECDF). Note that the ECDF is constructed based on the variable “-MinAVG<sub>y</sub>” (which is a *maximum* over a set of *negative* temperatures) with values of the variable MinAVG<sub>y</sub> that are the same as shown in Tables 7.1 and 7.2, below.

In Tables 8.1 and 8.2, the data for -MinAVG<sub>y</sub> are shown after they have been sorted from “lowest” to “highest” value. The ascending *ordinal* value is shown in the column labeled “RANK” and the empirical cumulative distribution function is calculated and shown in the next column. The formula used to calculate this function is:

$$\text{ECDF} = (\text{RANK} - \alpha) / [\text{MaxRANK} + (1 - 2\alpha)],$$

where the parameter “α” (shown as *alpha* in Table 8.1 and Table 8.2) is a “small” positive value (usually less than ½) that is used to bound the ECDF away from 0 and 1.

Of the three probability models considered (GEV, EV1, and T\_Dist) the results obtained for the T\_Dist model were selected since the fit to the ECDF was better than that of either the GEV model or the EV1 model. (Although convergence to stable parameter estimates is occasionally a problem with fitting a GEV model to the ECDF, the T\_Dist model had no problems with convergence of the iterative procedure to estimate parameters.)

The T\_Dist model used here is a three-parameter probability model where the variable  $z = (-\text{MinAVG}_y - \gamma) / \theta$ , for each year,  $y$ , is presumed to follow a T\_Dist with location parameter,  $\gamma$ , and scale parameter,  $\theta$ , and a third parameter,  $\nu$ , that represents the number of degrees of freedom. For a given number of years of data,  $N$ , then  $\nu=N-2$ .

The following mathematical expression specifies the T\_Dist model we fit to the data for “-MinAVG<sub>y</sub>” shown in Table 8.1 and Table 8.2, below.

$$(3) \quad \text{ECDF}(-\text{MinAVG}_y) = \text{Prob} \{ -T < -\text{MinAVG}_y \} = \text{T\_Dist}\{z; \gamma, \theta, \nu=N-2\},$$

where “T\_Dist{ . }” is the cumulative probability distribution function for Student’s T-Distribution<sup>2</sup>, and

<sup>2</sup> A common mathematical expression for Student’s T-Distribution is provided at [http://en.wikipedia.org/wiki/Student%27s\\_t-distribution](http://en.wikipedia.org/wiki/Student%27s_t-distribution); with a probability density function

$$f(t) = \frac{\Gamma(\frac{\nu+1}{2})}{\sqrt{\nu\pi} \Gamma(\frac{\nu}{2})} \left(1 + \frac{t^2}{\nu}\right)^{-\frac{\nu+1}{2}},$$

$$(4) \quad z = (-\text{MinAVG}_y - \gamma) / \theta, \text{ for each year, } y, \text{ and}$$

the parameters “ $\gamma$ ” and “ $\theta$ ” are estimated for this model for given degrees of freedom  $v=N-2$ . The estimated values for  $\gamma$  and  $\theta$  are shown in Table 8.2 along with the fitted values of the model CDF (the column: “Fitted” Model CDF).

Now, to calculate a *peak-day design temperature*,  $\text{TPDD}_\delta$ , with a specified likelihood,  $\delta$ , that a value less than  $\text{TPDD}_\delta$  would be observed, we use the equation below:

$$(5) \quad \delta = \text{Prob} \{ T \leq \text{TPDD}_\delta \}, \text{ which is equivalent to}$$

$$(6) \quad \delta = \text{Prob} \{ [(-T - \gamma) / \theta] \geq [(-\text{TPDD}_\delta - \gamma) / \theta] \}, = \text{Prob} \{ [(-T - \gamma) / \theta] \geq [z_\delta] \}, \text{ where } z_\delta = [(-\text{TPDD}_\delta - \gamma) / \theta]. \text{ In terms of our probability model,}$$

$$(7) \quad \delta = 1 - T\_Dist\{ z_\delta; \gamma, \theta, v=N-2 \},$$

which yields the following equation for  $z_\delta$ ,

(7')  $z_\delta = \{ \text{TINV\_Dist}\{ (1-\delta); \gamma, \theta, v=N-2 \},$  where “ $\text{TINV\_Dist}\{ . \}$ ” is the inverse function of the  $T\_Dist\{ . \}$  function<sup>3</sup>. The implied equation for  $\text{TPDD}_\delta$  is:

$$(8) \quad \text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)].$$

To calculate the minimum daily (system average) temperature to define our extreme weather event, we specify that this COLDEST-Day be one where the temperature would be lower with a “1-in-35” likelihood. This criterion translates into two equations to be solved based on equations (7) and (8) above:

$$(9) \quad \text{solve for “} z_\delta \text{” from equation (7') above with } (1-\delta) = (1 - 1/35) = 1 - 0.0286,$$

$$(10) \quad \text{solve for “} \text{TPDD}_\delta \text{” from } \text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)].$$

The value of  $z_\delta = 1.935$  and  $\text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)] = 40.6$  degrees Fahrenheit, with values for “ $v=N-2$ ”; along with “ $\gamma$ ” and “ $\theta$ ” in Tables 8.1 & 8.2, below.

SoCalGas’ 1-in-10 peak-day design temperature of 42.3 degrees Fahrenheit, is calculated in a methodologically similar way as for the 40.6 degree peak day temperature. The criteria specified in equation (9) above for a “1-in-35” likelihood would be replaced by a “1-in-10” likelihood.

$$(9') \quad \text{solve for “} z_\delta \text{” from equation (7') above with } (1-\delta) = (1 - 1/10) = 1 - 0.1000,$$

which yields a “ $z_\delta$ ” value of  $z_\delta = 1.294$  and,  $\text{TPDD}_\delta = - [\gamma + (z_\delta)(\theta)] = 42.3$  with values for “ $v=N-2$ ”; along with “ $\gamma$ ” and “ $\theta$ ” in Tables 8.1 and 8.2, below.

such that  $T\_Dist\{z; \gamma, \theta, v=N-2\} = \int_{-\infty}^z f(t) dt$ , from  $t=-\infty$  to  $t=z$ . Also, the notation  $\Gamma(.)$  is known in mathematics as the GAMMA function; see [http://www.wikipedia.org/wiki/Gamma\\_function](http://www.wikipedia.org/wiki/Gamma_function) for a description. Also, see *Statistical Theory*, 3<sup>rd</sup> Ed., B.W. Lindgren, MacMillian Pub. Inc, 1976, pp. 336-337.

<sup>3</sup> Computer software packages such as SAS and EXCEL have implemented statistical and mathematical functions to readily calculate values for  $T\_Dist\{ . \}$  and  $\text{TINV\_Dist}\{ . \}$  as defined above.

A plot of the cumulative distribution function for  $\text{MinAVG}_y$  based on “ $v=N-2$ ”, the fitted model parameters, “ $\gamma$ ” and “ $\theta$ ” with values in Tables 8.1 and 8.2, below, is shown in Figure 1.

**Table 7.1**

<b>YEAR</b>	<b>MINAVG</b>	<b>Month(MinAvg)</b>
1950	40.84	Jan
1951	44.46	Dec
1952	43.13	Jan
1953	45.52	Feb
1954	45.64	Dec
1955	45.84	Dec
1956	44.85	Feb
1957	39.50	Jan
1958	46.35	Nov
1959	48.27	Feb
1960	42.24	Jan
1961	47.21	Dec
1962	43.42	Jan
1963	42.43	Jan
1964	45.29	Nov
1965	44.72	Jan
1966	46.83	Jan
1967	40.81	Dec
1968	40.47	Dec
1969	44.86	Jan
1970	46.82	Dec
1971	42.98	Jan
1972	41.43	Dec
1973	45.25	Jan
1974	43.03	Jan
1975	44.56	Jan
1976	44.69	Jan
1977	48.23	Jan
1978	41.67	Dec
1979	41.46	Jan
1980	50.24	Jan
1981	49.28	Jan
1982	45.42	Jan
1983	48.68	Jan
1984	46.81	Dec
1985	45.24	Feb
1986	48.68	Feb
1987	43.48	Dec
1988	43.39	Dec
1989	40.45	Feb
1990	39.10	Dec
1991	48.65	Mar
1992	47.51	Dec
1993	46.12	Jan
1994	47.07	Nov

**Table 7.2**

<b>YEAR</b>	<b>MINAVG</b>	<b>Month(MinAvg)</b>
1995	49.64	Dec
1996	44.77	Feb
1997	48.36	Jan
1998	43.54	Dec
1999	48.87	Jan
2000	48.85	Mar
2001	47.15	Jan
2002	45.95	Jan
2003	47.19	Dec
2004	48.23	Nov
2005	47.31	Jan
2006	45.70	Mar
2007	41.42	Jan
2008	45.95	Dec
2009	45.31	Dec
2010	44.58	Dec
2011	46.99	Feb
2012	46.77	Dec
2013	43.77	Jan
2014	47.94	Dec
2015	45.60	Jan
2016	46.89	Dec
2017	47.47	Jan
2018	47.35	Feb
2019	47.31	Feb
2020	50.03	Feb
2021	47.02	Jan
2022	48.17	Dec
2023	46.35	Feb

**Table 8.1** (alpha=0.375)

<u>Year</u>	<u>-MinAvg</u>	<u>Month(- MinAvg)</u>	<u>Rank</u>	<u>Empirical CDF</u>	<u>Model - [(-MinAvg - <math>\gamma</math>)/<math>\theta</math>]</u>	<u>Model - Fitted CDF</u>
1980	-50.2360	Jan	1	0.0084	-1.7814	0.0395
2020	-50.0336	Feb	2	0.0219	-1.7052	0.0462
1995	-49.6410	Dec	3	0.0354	-1.5573	0.0619
1981	-49.2789	Jan	4	0.0488	-1.4210	0.0798
1999	-48.8655	Jan	5	0.0623	-1.2653	0.1049
2000	-48.8506	Mar	6	0.0758	-1.2597	0.1059
1986	-48.6820	Feb	7	0.0892	-1.1962	0.1178
1983	-48.6754	Jan	8	0.1027	-1.1937	0.1183
1991	-48.6507	Mar	9	0.1162	-1.1844	0.1201
1997	-48.3620	Jan	10	0.1296	-1.0757	0.1428
1959	-48.2653	Feb	11	0.1431	-1.0393	0.1511
1977	-48.2319	Jan	12	0.1566	-1.0267	0.1540
2004	-48.2268	Nov	13	0.1700	-1.0248	0.1544
2022	-48.1691	Dec	14	0.1835	-1.0031	0.1596
2014	-47.9396	Dec	15	0.1970	-0.9167	0.1812
1992	-47.5146	Dec	16	0.2104	-0.7566	0.2259
2017	-47.4654	Jan	17	0.2239	-0.7381	0.2314
2018	-47.3538	Feb	18	0.2374	-0.6961	0.2443
2019	-47.3123	Feb	19	0.2508	-0.6804	0.2492
2005	-47.3102	Jan	20	0.2643	-0.6796	0.2495
1961	-47.2073	Dec	21	0.2778	-0.6409	0.2618
2003	-47.1917	Dec	22	0.2912	-0.6350	0.2637
2001	-47.1534	Jan	23	0.3047	-0.6206	0.2684
1994	-47.0707	Nov	24	0.3182	-0.5895	0.2787
2021	-47.0235	Jan	25	0.3316	-0.5717	0.2847
2011	-46.9906	Feb	26	0.3451	-0.5593	0.2888
2016	-46.8939	Dec	27	0.3586	-0.5229	0.3013
1966	-46.8303	Jan	28	0.3721	-0.4989	0.3097
1970	-46.8198	Dec	29	0.3855	-0.4950	0.3111
1984	-46.8088	Dec	30	0.3990	-0.4908	0.3125
2012	-46.7734	Dec	31	0.4125	-0.4775	0.3172
2023	-46.3506	Feb	32	0.4259	-0.3183	0.3756
1958	-46.3498	Nov	33	0.4394	-0.3180	0.3757
1993	-46.1217	Jan	34	0.4529	-0.2321	0.4086
2008	-45.9516	Dec	35	0.4663	-0.1681	0.4335
2002	-45.9466	Jan	36	0.4798	-0.1662	0.4342
1955	-45.8390	Dec	37	0.4933	-0.1257	0.4502
2006	-45.7028	Mar	38	0.5067	-0.0744	0.4705
1954	-45.6387	Dec	39	0.5202	-0.0503	0.4800
2015	-45.6013	Jan	40	0.5337	-0.0362	0.4856
1953	-45.5221	Feb	41	0.5471	-0.0063	0.4975
1982	-45.4223	Jan	42	0.5606	0.0312	0.5124
2009	-45.3131	Dec	43	0.5741	0.0723	0.5287
1964	-45.2908	Nov	44	0.5875	0.0808	0.5321
1973	-45.2478	Jan	45	0.6010	0.0969	0.5385
1985	-45.2383	Feb	46	0.6145	0.1005	0.5399
1969	-44.8554	Jan	47	0.6279	0.2447	0.5963
1956	-44.8454	Feb	48	0.6414	0.2485	0.5978



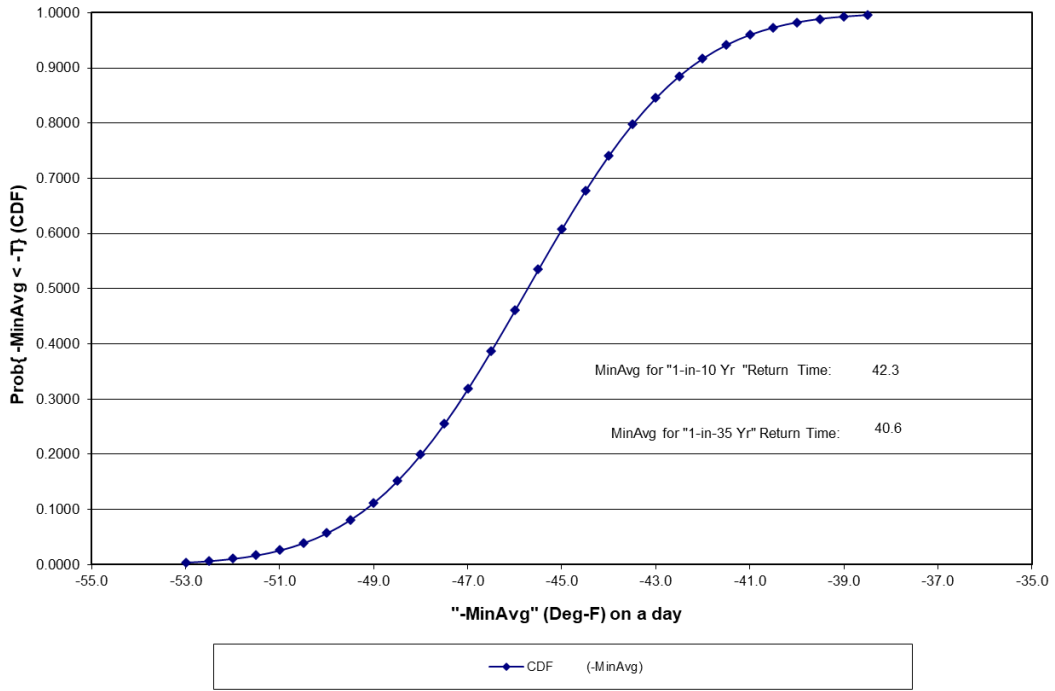
**Table 8.2** (alpha=0.375)

<u>Year</u>	<u>-MinAvg</u>	<u>Month(- MinAvg)</u>	<u>Rank</u>	<u>Empirical CDF</u>	<u>Model - [(-MinAvg - <math>\gamma</math>)/<math>\theta</math>]</u>	<u>Model - Fitted CDF</u>
1996	-44.7750	Feb	49	0.6549	0.2750	0.6079
1965	-44.7196	Jan	50	0.6684	0.2959	0.6159
1976	-44.6874	Jan	51	0.6818	0.3080	0.6205
2010	-44.5766	Dec	52	0.6953	0.3497	0.6362
1975	-44.5631	Jan	53	0.7088	0.3548	0.6381
1951	-44.4583	Dec	54	0.7222	0.3942	0.6527
2013	-43.7681	Jan	55	0.7357	0.6542	0.7425
1998	-43.5440	Dec	56	0.7492	0.7386	0.7687
1987	-43.4777	Dec	57	0.7626	0.7635	0.7762
1962	-43.4164	Jan	58	0.7761	0.7866	0.7829
1988	-43.3872	Dec	59	0.7896	0.7976	0.7861
1952	-43.1273	Jan	60	0.8030	0.8954	0.8132
1974	-43.0305	Jan	61	0.8165	0.9319	0.8228
1971	-42.9771	Jan	62	0.8300	0.9520	0.8279
1963	-42.4290	Jan	63	0.8434	1.1584	0.8747
1960	-42.2386	Jan	64	0.8569	1.2301	0.8887
1978	-41.6683	Dec	65	0.8704	1.4448	0.9236
1979	-41.4590	Jan	66	0.8838	1.5236	0.9340
1972	-41.4338	Dec	67	0.8973	1.5331	0.9352
2007	-41.4245	Jan	68	0.9108	1.5366	0.9356
1950	-40.8421	Jan	69	0.9242	1.7559	0.9583
1967	-40.8111	Dec	70	0.9377	1.7676	0.9593
1968	-40.4664	Dec	71	0.9512	1.8974	0.9691
1989	-40.4511	Feb	72	0.9646	1.9032	0.9695
1957	-39.4953	Jan	73	0.9781	2.2631	0.9867
1990	-39.0976	Dec	74	0.9916	2.4129	0.9908

"Gamma"  
(Fitted) = -45.74  
"Theta"  
(Fitted) = 2.67  
Deg.  
Freedom= 72

**Figure 1**

CDF for the Random Variable: "-MinAvg",  
[Minimum System Avg. Temp (Deg-F) on a Day over a Year]



## VI. Estimating the Uncertainty in the Peak-Day Design Temperature

The calculated peak-day design temperatures in section V above also have a statistical uncertainty associated with them. The estimated measures of uncertainty recommended for our use are calculated from the fitted model for the probability distribution and are believed to be reasonable, although rough, approximations.

The basic approach used the estimated parameters for the probability distribution (see the results provided in Tables 8.1 and 8.2, above) to calculate the fitted temperatures as a function of the empirical CDF listed in Tables 8.1 and 8.2, above. These fitted temperatures are then compared with the observed temperatures by calculating the difference = “observed” – “fitted” values. The full set of differences are then separated into the lower third (L), the middle third (M) and the upper third (U) of the distribution. Finally, values of the root-mean-square error (RMSE) of the differences in each third of the distribution are calculated, along with the RMSE for the entire set of differences overall. The data in Tables 9.1 and 9.2, below, show the temperature data and the resulting RMSE values.

The formula below is used to calculate the RMSE for a specified set of “N” data differences:

$$\text{RMSE} = \text{SQRT} \left\{ \left( \sum_{i=1, \dots, N} e[i]^2 \right) / (N-2) \right\},$$

where  $e[i] = \text{observed less fitted value of temperature, } T[i]$ . The number of estimated parameters (3 for the GEV model, 2 for the T-Dist and EV1 models) is subtracted from the respective number of data differences, N, in the denominator of the RMSE expression.

Since both the “1-in-35” and “1-in-10” peak-day temperature values are in the lower third quantile of the fitted distribution, the calculated standard error for these estimates is 0.60 Deg-F.

**Table 9.1**

Quantile: (Lower, Middle, Upper 3rd's)	Observed $T_{[i]}$ Temp. Ranked	Residual $e_{[i]}$ : Obs'd. less		Square of $e_{[i]}$ :
		Fitted Value of $T_i$ $i $	Fitted Value of $T_i$ $i $	
U	50.2360	52.2647	-2.0286	4.1153
U	50.0336	51.2110	-1.1774	1.3862
U	49.6410	50.6298	-0.9888	0.9778
U	49.2789	50.2127	-0.9338	0.8719
U	48.8655	49.8812	-1.0157	1.0317
U	48.8506	49.6027	-0.7522	0.5657
U	48.6820	49.3605	-0.6785	0.4603
U	48.6754	49.1447	-0.4693	0.2202
U	48.6507	48.9489	-0.2982	0.0889
U	48.3620	48.7690	-0.4070	0.1657
U	48.2653	48.6019	-0.3366	0.1133
U	48.2319	48.4453	-0.2134	0.0455
U	48.2268	48.2975	-0.0707	0.0050
U	48.1691	48.1572	0.0119	0.0001
U	47.9396	48.0233	-0.0837	0.0070
U	47.5146	47.8950	-0.3804	0.1447
U	47.4654	47.7715	-0.3060	0.0937
U	47.3538	47.6522	-0.2985	0.0891
U	47.3123	47.5367	-0.2244	0.0504
U	47.3102	47.4245	-0.1143	0.0131
U	47.2073	47.3152	-0.1078	0.0116
U	47.1917	47.2085	-0.0168	0.0003
U	47.1534	47.1041	0.0492	0.0024
U	47.0707	47.0019	0.0688	0.0047
U	47.0235	46.9015	0.1221	0.0149
M	46.9906	46.8027	0.1879	0.0353
M	46.8939	46.7053	0.1885	0.0355
M	46.8303	46.6093	0.2210	0.0488
M	46.8198	46.5144	0.3054	0.0933
M	46.8088	46.4205	0.3883	0.1507
M	46.7734	46.3275	0.4460	0.1989
M	46.3506	46.2351	0.1155	0.0133
M	46.3498	46.1434	0.2064	0.0426
M	46.1217	46.0521	0.0695	0.0048
M	45.9516	45.9613	-0.0097	0.0001
M	45.9466	45.8707	0.0759	0.0058
M	45.8390	45.7802	0.0588	0.0035
M	45.7028	45.6898	0.0130	0.0002
M	45.6387	45.5994	0.0393	0.0015
M	45.6013	45.5088	0.0925	0.0086
M	45.5221	45.4179	0.1042	0.0108
M	45.4223	45.3267	0.0956	0.0091
M	45.3131	45.2350	0.0782	0.0061
M	45.2908	45.1426	0.1482	0.0220
M	45.2478	45.0496	0.1983	0.0393
M	45.2383	44.9557	0.2827	0.0799
M	44.8554	44.8608	-0.0054	0.0000
M	44.8454	44.7647	0.0807	0.0065
M	44.7750	44.6674	0.1076	0.0116

**Table 9.2**

Quantile: (Lower, Middle, Upper 3rd's)	Observed $T_{[i]}$ Temp. Ranked	Fitted Value of $T_{[i]}$	Residual $e_{[i]}$ : Obs'd. less Fitted Value of $T_{[i]}$	Square of $e_{[i]}$ :
L	44.7196	44.5686	0.1510	0.0228
L	44.6874	44.4682	0.2192	0.0480
L	44.5766	44.3659	0.2107	0.0444
L	44.5631	44.2616	0.3015	0.0909
L	44.4583	44.1549	0.3034	0.0921
L	43.7681	44.0456	-0.2775	0.0770
L	43.5440	43.9334	-0.3894	0.1517
L	43.4777	43.8179	-0.3401	0.1157
L	43.4164	43.6986	-0.2822	0.0796
L	43.3872	43.5751	-0.1879	0.0353
L	43.1273	43.4468	-0.3194	0.1020
L	43.0305	43.3129	-0.2824	0.0798
L	42.9771	43.1726	-0.1954	0.0382
L	42.4290	43.0248	-0.5958	0.3549
L	42.2386	42.8682	-0.6296	0.3964
L	41.6683	42.7011	-1.0327	1.0665
L	41.4590	42.5212	-1.0621	1.1281
L	41.4338	42.3254	-0.8916	0.7949
L	41.4245	42.1096	-0.6850	0.4693
L	40.8421	41.8673	-1.0252	1.0510
L	40.8111	41.5889	-0.7778	0.6049
L	40.4664	41.2574	-0.7910	0.6257
L	40.4511	40.8403	-0.3892	0.1515
L	39.4953	40.2591	-0.7638	0.5834
L	39.0976	39.2054	-0.1078	0.0116

**Overall RMSE ( $e_{[i]}$ ): 0.52 °F**  
**Upper 3rd RMSE ( $e_{[i]}$ ): 0.68 °F**  
**Middle 3rd RMSE ( $e_{[i]}$ ): 0.19 °F**  
**Lower 3rd RMSE ( $e_{[i]}$ ): 0.60 °F**

## VII. The Relationship between Annual Likelihoods for Peak-Day Temperatures and “Expected Return Time”

The event whose probability distribution we’ve modeled is the likelihood that the minimum daily temperature over a calendar year is less than a specified value. And, in particular, we’ve used this probability model to infer the value of a temperature, our *peak-day design temperature* (TPDD<sub>δ</sub>), that corresponds to a pre-defined likelihood, δ, that the observed minimum temperature is less than or equal to this design temperature.

$$(1) \quad \delta = \text{Prob}\{ \text{Minimum Daily Temperature over the Year} < \text{TPDD}_\delta \}.$$

For some applications, it is useful to think of how this specified likelihood (or “risk level” δ) relates to the expected number of years until this Peak-Day event would first occur. This expected number of years is what is meant by the *return period*. The results stated below are found in the book: *Statistics of Extremes*, E.J. Gumbel, Columbia University Press, 1958, on pages 21-25.

$$(2) \quad E[ \# \text{Yrs for Peak-Day Event to Occur} ] = 1 / \delta, \\ 1 / \text{Prob}\{ \text{Minimum Daily Temperature over the Year} < \text{TPDD}_\delta \}.$$

For our peak-day design temperature (40.6°F) associated with a 1-in-35 annual likelihood, the return period is 35 years (δ=1/35). For the 42.3°F peak-day design temperature, the return period is 10 years (δ=1/10). Occasionally, a less precise terminology is used. For example, the 40.6°F peak-day design temperature may be referred to as a “1-in-35 year cold day”; and the 42.3°F peak-day design temperature may be referred to as a “1-in-10 year cold day.”

The probability model for the *return period*, as a random variable, is a geometric (discrete) distribution with positive integer values for the *return period*. The parameter δ = Prob{ Minimum Daily Temperature over the Year < TPDD<sub>δ</sub> }.

$$(3) \quad \text{Prob}\{ \text{return period} = r \} = (1 - \delta)^{(r-1)} \delta, \text{ for } r = 1, 2, 3, \dots$$

The expected value of the *return period* is already given in (2) above; the variance of the *return period* is:

$$(4) \quad \text{Var}[ \text{return period} ] = (E[ \text{return period} ])^2 \times (1 - (1 / E [ \text{return period} ])),$$

$$(4') \quad \text{Var}[ \text{return period} ] = (E[ \text{return period} ]) \times (E [ \text{return period} ] - 1).$$

Equations (4) and (4') indicate that the standard deviation (square root of the variance) of the *return period* is nearly equal to its expected value. Thus, there is substantial variability about the expected value—a *return period* is not very precise.

## **GAS PRICE FORECAST**

The natural gas price forecast used to develop the demand forecasts for SoCalGas and SDG&E was prepared in March 2022 using S&P Global Commodity Insights' February 2024 forecast.



## Natural Gas Price Forecast

Year	SoCal Border (nominal \$/MMbtu)
Jan-2024	
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