

Workpapers of Chapter 5b (Wei Bin Guo)

Application: A.22-09-015

SoCalGas and SDG&E

2024 Cost Allocation Proceeding

(NONCORE AND CONSOLIDATED DEMAND FORECASTS)

Errata - September 8, 2023

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SoCalGas Consolidated Gas Demand

Marginal Demand Measures (MDM)

Marginal Demand Measures (MDMs) are used for rate design and cost allocation calculations. Figure 1, below, shows the relationships among the various MDMs that are provided in the accompanying tables.

Figure 1

Diagram Depicting the Relationships
Among “Direct” and “Cumulative” MDMs

Direct Basis	D_T	T (Transmission)		
	D_H	H (High Pressure)	H (High Pressure)	
	D_M	M (Medium Pressure)	M (Medium Pressure)	M (Medium Pressure)
		C_T = D_T + D_H + D_M	C_H = D_H + D_M	C_M = D_M
		Cumulative Basis		

For example, the MDM data in the tables below for Noncore C&I (G-30), Average Year throughput gas demand have *direct* values for various segments of pressure service:

$$D_T = 750,680 \text{ MTh}, \quad D_H = 602,390 \text{ MTh}, \quad \text{and} \quad D_M = 291,895 \text{ MTh}.$$

The corresponding *cumulative* totals are:

$$C_T = 1,644,965 \text{ MTh}, \quad C_H = 894,285 \text{ MTh}, \quad \text{and} \quad C_M = 291,895 \text{ MTh},$$

using the formulas indicated in the Figure 1, above.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	2024 CAP: SoCalGas												
2	Consolidated Gas Demand												
3	Forecast Summary (Mtherms)												
4						Btu Factor:	1.0322						
5									Co-Use-Fuel	UAF			
6									0.275%	0.787%			
7									0.278%	0.795%			
8													
9													
10													
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	A	B	C	D	E	F	G	H	I	J	K	L	M
1	2024 CAP: SoCalGas												
2	Consolidated Gas Demand												
3	Forecast Summary (Mtherms)												
4						Btu Factor:	1.0322						
5									Co-Use-Fuel	UAF			
6									0.275%	0.787%			
7						MDM #Yrs Av (3- or							
8						4-yr)							
9						4							
10	Forecast Summary				MDM								
11													
12													
13													
14													
15													
16													
17													
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	A	B	C	D	E	N	O	P	Q	R	S	T	U	V	W	X
1	2024 CAP: SoCalGas															
2	Consolidated Gas Demand															
3	Forecast Summary (Mtherms)															
4																
5																
6	MDM #Yrs Av (3- or															
7	4-yr)															
8	4															
9	Forecast Summary	MDM				Noncore - C&I	EG-Dist	EG-Trans	EG-Dist	EG-Trans	Noncore - Electric Generation					
10			G-30 Dist	G-30 Trans	G-30	EG (<3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (>=3MMThms)	EG (<3MMThms)	(>=3MMThms)	EG (Total)				
11	<< CAP Period >> January 2024 - December 2027															
12	DIRECT (%'s Load or Cust/Mtrs Sum to 100%)															
13	Transmission %-Load:															
14	Average Year Throughput (MTh)	0	750,680	750,680	0	7,305	0	1,793,664	7,305	1,793,664	1,800,969					
15	Cold Year Throughput (1-in-35) (MTh)	0	750,804	750,804	0	7,305	0	1,793,664	7,305	1,793,664	1,800,969					
16	Cold Year Peak Month (December) (MTh)	0	67,185	67,185	0	489	0	143,894	489	143,894	144,383					
17	Peak Day (see note a/ below) (MTh)	0	2,733	2,733	0	23	0	5,193	23	5,193	5,216					
18	%-Cust/Mtrs:															
19	Number of Customers	0	30	30	0	13	0	35	13	35	48					
20	High Pressure %-Load:															
21	Average Year Throughput (MTh)	602,390	0	602,390	28,646	0	177,614	0	28,646	177,614	206,260					
22	Cold Year Throughput (1-in-35) (MTh)	603,335	0	603,335	28,646	0	177,614	0	28,646	177,614	206,260					
23	Cold Year Peak Month (December) (MTh)	50,321	0	50,321	2,414	0	14,694	0	2,414	14,694	17,108					
24	Peak Day (see note a/ below) (MTh)	2,060	0	2,060	88	0	508	0	88	508	596					
25	%-Cust/Mtrs:															
26	Number of Customers	201	0	201	36	0	19	0	36	19	55					
27	Medium Pressure %-Load:															
28	Average Year Throughput (MTh)	291,895	0	291,895	86,022	0	42,998	0	86,022	42,998	129,021					
29	Cold Year Throughput (1-in-35) (MTh)	293,691	0	293,691	86,022	0	42,998	0	86,022	42,998	129,021					
30	Cold Year Peak Month (December) (MTh)	25,646	0	25,646	7,317	0	3,653	0	7,317	3,653	10,970					
31	Peak Day (see note a/ below) (MTh)	1,042	0	1,042	236	0	118	0	236	118	354					
32	%-Cust/Mtrs:															
33	Number of Customers	325	0	325	273	0	6	0	273	6	279					

	A	B	C	D	E	N	O	P	Q	R	S	T	U	V	W	X
1	2024 CAP: SoCalGas															
2	Consolidated Gas Demand															
3	Forecast Summary (Mtherms)															
4																
5																
6	MDM #Yrs Av (3- or															
7	4-yr)															
8	4															
9	Forecast Summary	MDM				Noncore - C&I	EG-Dist	EG-Trans	EG-Dist	EG-Trans	Noncore - Electric Generation					
10			G-30 Dist	G-30 Trans	G-30	EG (<3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (>=3MMThms)	EG (<3MMThms)	(>=3MMThms)	EG (Total)				
11	<< CAP Period >> January 2024 - December 2027															
34	CUMULATIVE (Calc'd from DIRECT %'s)															
35	Transmission %-Load:															
36	Average Year Throughput (MTh)		894,285	750,680	1,644,965	114,668	7,305	220,612	1,793,664	121,973	2,014,276	2,136,249				
37	Cold Year Throughput (1-in-35) (MTh)		897,026	750,804	1,647,830	114,668	7,305	220,612	1,793,664	121,973	2,014,276	2,136,249				
38	Cold Year Peak Month (December) (MTh)		75,967	67,185	143,152	9,731	489	18,348	143,894	10,220	162,242	172,461				
39	Peak Day (see note a/ below) (MTh)		3,102	2,733	5,835	324	23	626	5,193	347	5,819	6,166				
40	%-Cust/Mtrs:															
41	Number of Customers		526	30	556	309	13	25	35	322	60	382				
42	High Pressure %-Load:															
43	Average Year Throughput (MTh)		894,285	0	894,285	114,668	0	220,612	0	114,668	220,612	335,280				
44	Cold Year Throughput (1-in-35) (MTh)		897,026	0	897,026	114,668	0	220,612	0	114,668	220,612	335,280				
45	Cold Year Peak Month (December) (MTh)		75,967	0	75,967	9,731	0	18,348	0	9,731	18,348	28,078				
46	Peak Day (see note a/ below) (MTh)		3,102	0	3,102	324	0	626	0	324	626	950				
47	%-Cust/Mtrs:															
48	Number of Customers		526	0	526	309	0	25	0	309	25	334				
49	Medium Pressure %-Load:															
50	Average Year Throughput (MTh)		291,895	0	291,895	86,022	0	42,998	0	86,022	42,998	129,021				
51	Cold Year Throughput (1-in-35) (MTh)		293,691	0	293,691	86,022	0	42,998	0	86,022	42,998	129,021				
52	Cold Year Peak Month (December) (MTh)		25,646	0	25,646	7,317	0	3,653	0	7,317	3,653	10,970				
53	Peak Day (see note a/ below) (MTh)		1,042	0	1,042	236	0	118	0	236	118	354				
54	%-Cust/Mtrs:															
55	Number of Customers		325	0	325	273	0	6	0	273	6	279				
	Note: a/															
56																

	A	B	C	D	E	Y	Z	AA	AB	AC	AD	
1	2024 CAP: SoCalGas											
2	Consolidated Gas Demand											
3	Forecast Summary (Mtherms)											
4												
5												
6		MDM #Yrs Av (3- or 4-yr)										
7		4										
8												
9	Forecast Summary			MDM				Noncore- EOR		Total		
10												
11	<< CAP Period >> January 2024 - December 2027											
12	DIRECT (%s Load or Cust/Mtrs Sum to 100%)											
13	Transmission %-Load:											
14		Average Year Throughput (MTh)			0	43,565	43,565			2,595,214		
15		Cold Year Throughput (1-in-35) (MTh)			0	43,565	43,565			2,595,338		
16		Cold Year Peak Month (December) (MTh)			0	3,700	3,700			215,269		
17		Peak Day (see note a/ below) (MTh)			0	119	119			8,068		
18		%-Cust/Mtrs:										
19		Number of Customers			0	14	14			92		
20	High Pressure %-Load:											
21		Average Year Throughput (MTh)			110,488	0	110,488			919,138		
22		Cold Year Throughput (1-in-35) (MTh)			110,488	0	110,488			920,083		
23		Cold Year Peak Month (December) (MTh)			9,384	0	9,384			76,813		
24		Peak Day (see note a/ below) (MTh)			303	0	303			2,959		
25		%-Cust/Mtrs:										
26		Number of Customers			16	0	16			272		
27	Medium Pressure %-Load:											
28		Average Year Throughput (MTh)			13	0	13			420,929		
29		Cold Year Throughput (1-in-35) (MTh)			13	0	13			422,725		
30		Cold Year Peak Month (December) (MTh)			1	0	1			36,617		
31		Peak Day (see note a/ below) (MTh)			0	0	0			1,396		
32		%-Cust/Mtrs:										
33		Number of Customers			2	0	2			606		

	A	B	C	D	E	Y	Z	AA	AB	AC	AD		
1	2024 CAP: SoCalGas												
2	Consolidated Gas Demand												
3	Forecast Summary (Mtherms)												
4													
5													
6	<table border="1" style="margin: auto;"> <tr> <td style="padding: 2px;">MDM #Yrs Av (3- or 4-yr)</td> </tr> <tr> <td style="text-align: center; padding: 2px;">4</td> </tr> </table>											MDM #Yrs Av (3- or 4-yr)	4
MDM #Yrs Av (3- or 4-yr)													
4													
7													
8													
9	Forecast Summary		MDM				Noncore- EOR		Total				
10							EOR		Retail Noncore				
11	<< CAP Period >>		January 2024 - December 2027										
34	CUMULATIVE (Calc'd from DIRECT %'s)												
35	Transmission %-Load:												
36	Average Year Throughput (MTh)		110,501		43,565		154,067		3,935,281				
37	Cold Year Throughput (1-in-35) (MTh)		110,501		43,565		154,067		3,938,146				
38	Cold Year Peak Month (December) (MTh)		9,385		3,700		13,085		328,698				
39	Peak Day (see note a/ below) (MTh)		303		119		422		12,423				
40	%-Cust/Mtrs:												
41	Number of Customers		18		14		32		970				
42	High Pressure %-Load:												
43	Average Year Throughput (MTh)		110,501		0		110,501		1,340,067				
44	Cold Year Throughput (1-in-35) (MTh)		110,501		0		110,501		1,342,808				
45	Cold Year Peak Month (December) (MTh)		9,385		0		9,385		113,430				
46	Peak Day (see note a/ below) (MTh)		303		0		303		4,355				
47	%-Cust/Mtrs:												
48	Number of Customers		18		0		18		878				
49	Medium Pressure %-Load:												
50	Average Year Throughput (MTh)		13		0		13		420,929				
51	Cold Year Throughput (1-in-35) (MTh)		13		0		13		422,725				
52	Cold Year Peak Month (December) (MTh)		1		0		1		36,617				
53	Peak Day (see note a/ below) (MTh)		0		0		0		1,396				
54	%-Cust/Mtrs:												
55	Number of Customers		2		0		2		606				
	Note: a/												
56													

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO		
1	2024 CAP: SoCalGas																	
2	Consolidated Gas Demand																	
3	Forecast Summary (Mtherms)																	
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MDM #Yrs Av (3- or 4-yr)																		
4																		
7																		
8																		
9	Forecast Summary		MDM															
10			Wholesale Noncore				Total Wholesale		International NC		Total Noncore		Total System					
11	<< CAP Period >> January 2024 - December 2027		Long Beach	SDG&E	Southwest Gas	Vernon			Ecogas									
12	DIRECT (%'s Load or Cust/Mtrs Sum to 100%)																	
13	Transmission		%-Load:		100.00%	100.00%	100.00%	100.00%			100.00%							
14	Average Year Throughput (MTh)		91,703	841,578	74,685	97,040	1,105,006		139,490	3,839,710		3,869,464						
15	Cold Year Throughput (1-in-35) (MTh)		98,542	876,461	80,459	97,803	1,153,265		139,490	3,888,093		3,918,112						
16	Cold Year Peak Month (December) (MTh)		13,116	99,379	12,721	8,281	133,498		11,112	359,878		362,687						
17	Peak Day (see note a/ below) (MTh)		662	5,413	586	293	6,955		379	15,402		15,509						
18	%-Cust/Mtrs:		100.00%		100.00%		100.00%		100.00%									
19	Number of Customers		1	1	1	1	4		1	97		211						
20	High Pressure		%-Load:		0.00%	0.00%	0.00%	0.00%			0.00%							
21	Average Year Throughput (MTh)		0	0	0	0	0		0	919,138		1,038,858						
22	Cold Year Throughput (1-in-35) (MTh)		0	0	0	0	0		0	920,083		1,042,053						
23	Cold Year Peak Month (December) (MTh)		0	0	0	0	0		0	76,813		89,164						
24	Peak Day (see note a/ below) (MTh)		-	-	-	-	0		-	2,959		3,494						
25	%-Cust/Mtrs:		0.00%		0.00%		0.00%		0.00%									
26	Number of Customers		-	-	-	-	0		-	272		8,230						
27	Medium Pressure		%-Load:		0.00%	0.00%	0.00%	0.00%			0.00%							
28	Average Year Throughput (MTh)		0	0	0	0	0		0	420,929		3,524,811						
29	Cold Year Throughput (1-in-35) (MTh)		0	0	0	0	0		0	422,725		3,732,201						
30	Cold Year Peak Month (December) (MTh)		0	0	0	0	0		0	36,617		497,224						
31	Peak Day (see note a/ below) (MTh)		-	-	-	-	0		-	1,396		28,766						
32	%-Cust/Mtrs:		0.00%		0.00%		0.00%		0.00%									
33	Number of Customers		-	-	-	-	0		-	606		6,050,293						

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO		
1	2024 CAP: SoCalGas																	
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MDM #Yrs Av (3- or 4-yr)																		
4																		
7																		
8																		
9	Forecast Summary		MDM															
10							Wholesale Noncore				Total Wholesale	International NC Ecogas		Total Noncore	Total System			
11	<< CAP Period >> January 2024 - December 2027						Long Beach	SDG&E	Southwest Gas	Vernon								
34	CUMULATIVE (Calc'd from DIRECT %'s)																	
35	Transmission	% -Load:	100.00%	100.00%	100.00%	100.00%						100.00%						
36		Average Year Throughput (MTh)	91,703	841,578	74,685	97,040						139,490		5,179,777		8,433,133		
37		Cold Year Throughput (1-in-35) (MTh)	98,542	876,461	80,459	97,803						139,490		5,230,901		8,692,366		
38		Cold Year Peak Month (December) (MTh)	13,116	99,379	12,721	8,281						11,112		473,307		949,074		
39		Peak Day (see note a/ below) (MTh)	662	5,413	586	293						379		19,756		47,769		
40		% -Cust/Mtrs:	100.00%	100.00%	100.00%	100.00%						100.00%						
41		Number of Customers	1	1	1	1						1		975		6,058,733		
42	High Pressure	% -Load:	0.00%	0.00%	0.00%	0.00%						0.00%						
43		Average Year Throughput (MTh)	0	0	0	0						0		1,340,067		4,563,669		
44		Cold Year Throughput (1-in-35) (MTh)	0	0	0	0						0		1,342,808		4,774,254		
45		Cold Year Peak Month (December) (MTh)	0	0	0	0						0		113,430		586,387		
46		Peak Day (see note a/ below) (MTh)	0	0	0	0						0		4,355		32,261		
47		% -Cust/Mtrs:	0.00%	0.00%	0.00%	0.00%						0.00%						
48		Number of Customers	0	0	0	0						0		878		6,058,522		
49	Medium Pressure	% -Load:	0.00%	0.00%	0.00%	0.00%						0.00%						
50		Average Year Throughput (MTh)	0	0	0	0						0		420,929		3,524,811		
51		Cold Year Throughput (1-in-35) (MTh)	0	0	0	0						0		422,725		3,732,201		
52		Cold Year Peak Month (December) (MTh)	0	0	0	0						0		36,617		497,224		
53		Peak Day (see note a/ below) (MTh)	0	0	0	0						0		1,396		28,766		
54		% -Cust/Mtrs:	0.00%	0.00%	0.00%	0.00%						0.00%						
55		Number of Customers	0	0	0	0						0		606		6,050,293		
	Note: a/																	
56																		

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)												
59	ANNUAL FORECAST DATA					Nonresidential Core					Total		
60						Residential	G-10	G-AC	G-GE	G-NGV		Core	
61	Average Year Throughput (Mth)												
62	2021					2,310,539	982,774	127	21,979	152,524		3,467,941	
63	2022					2,297,785	961,435	140	19,830	155,058		3,434,248	
64	2023					2,275,675	935,442	140	19,830	157,985		3,389,072	
65	2024					2,243,620	911,088	140	19,830	161,363		3,336,041	
66	2025					2,204,451	889,022	140	19,830	165,012		3,278,456	
67	2026					2,167,666	869,687	140	19,830	168,851		3,226,174	
68	2027					2,128,196	851,482	140	19,830	173,106		3,172,754	
69	2028					2,086,264	832,851	140	19,830	177,580		3,116,666	
70													
71													
72						Nonresidential Core					Total		
73						Residential	G-10	G-AC	G-GE	G-NGV		Core	
74	Average Year Sales (Mth)												
75	2021	365				2,285,743	872,705	127	20,116	46,785		3,225,476	
76	2022	365				2,273,125	853,739	140	18,150	47,949		3,193,104	
77	2023	365				2,251,253	830,787	140	18,150	49,488		3,149,819	
78	2024	366				2,219,541	809,200	140	18,150	51,461		3,098,492	
79	2025	365				2,180,793	789,636	140	18,150	53,686		3,042,404	
80	2026	365				2,144,403	772,499	140	18,150	56,082		2,991,274	
81	2027	365				2,105,356	756,380	140	18,150	58,875		2,938,901	
82	2028	366				2,063,875	739,870	140	18,150	61,869		2,883,904	
83													
84													
85						Nonresidential Core					Total		
86						Residential	G-10	G-AC	G-GE	G-NGV		Core	
87	Cold Year Throughput (Mth)												
88	2021					2,501,215	1,013,788	127	21,979	152,524		3,689,632	
89	2022					2,485,167	995,348	140	19,830	155,058		3,655,543	
90	2023					2,459,820	968,887	140	19,830	157,985		3,606,662	
91	2024					2,424,583	943,823	140	19,830	161,363		3,549,739	
92	2025					2,382,288	921,061	140	19,830	165,012		3,488,331	
93	2026					2,342,431	901,146	140	19,830	168,851		3,432,398	
94	2027					2,299,941	882,375	140	19,830	173,106		3,375,392	
95	2028					2,255,042	863,192	140	19,830	177,580		3,315,784	
96													
97													
98						Nonresidential Core					Total		
99	Specified	Peak Day Throughput (Mth/Day)				Residential	G-10	G-AC	G-GE	G-NGV		Core	
100	2021					23,717	5,669	0	28	435		29,849	
101	2022					23,458	5,680	0	29	443		29,611	
102	2023					23,159	5,542	0	29	452		29,182	
103	2024					22,815	5,412	0	29	462		28,719	
104	2025					22,441	5,291	0	29	473		28,234	
105	2026					22,081	5,184	0	29	485		27,779	
106	2027					21,711	5,081	0	29	498		27,319	
107	2028					21,333	4,978	0	29	511		26,851	
108													
109													
110						Nonresidential Core					Total		
111						Residential	G-10	G-AC	G-GE	G-NGV		Core	
112	Forecast Number of Customers												
113	2021					5,668,796	202,393	4	652	340		5,872,185	
114	2022					5,710,782	203,101	5	667	348		5,914,902	
115	2023					5,753,044	203,164	5	667	356		5,957,235	
116	2024					5,794,138	203,105	5	667	364		5,998,279	
117	2025					5,834,165	203,043	5	667	372		6,038,252	
118	2026					5,873,684	202,998	5	667	380		6,077,734	
119	2027					5,912,768	202,940	5	667	388		6,116,768	
120	2028					5,950,559	202,869	5	667	395		6,154,495	

	A	B	C	D	E	N	O	P	Q	R	S	T
1	2024 CAP: SoCalGas											
	Consolidated Gas Demand											
	Forecast Summary (Mtherms)											
59	ANNUAL FORECAST DATA											
60	Noncore - G-30						Noncore - Electric Gene					
61												
62	Average Year Throughput (Mth)											
63												
64												
65												
66												
67												
68												
69												
70												
71												
72	Noncore - G-30						Noncore - Electric Gene					
73												
74	Average Year Sales (Mth)											
75												
76												
77												
78												
79												
80												
81												
82												
83												
84												
85	Noncore - G-30						Noncore - Electric Gene					
86												
87	Cold Year Throughput (Mth)											
88												
89												
90												
91												
92												
93												
94												
95												
96												
97												
98	Noncore - G-30						Noncore - Electric Gene					
99												
100	Specified Peak Day Throughput (Mth/Day)											
101												
102												
103												
104												
105												
106												
107												
108												
109												
110	Noncore - G-30						Noncore - Electric Gene					
111												
112	Forecast Number of Customers											
113												
114												
115												
116												
117												
118												
119												
120												

	A	B	C	D	E	U	V	W	X	Y	Z	AA	AB	AC	AD
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)														
59	ANNUAL FORECAST DATA														
60						ratiion			Noncore - EOR			Total			
61						EG (<3MMThms) EG (>=3MMThms) EG (Total)			EOR (Dist.) EOR (Trans.) EOR (Total)			Retail Noncore			
62	Average Year Throughput (Mth)														
63	2021					128,308	2,340,236	2,468,544	94,332	35,731	130,063	4,227,177			
64	2022					121,748	2,348,312	2,470,060	113,019	44,558	157,577	4,271,335			
65	2023					121,103	2,334,373	2,455,475	113,019	44,558	157,577	4,260,244			
66	2024					120,874	2,133,290	2,254,164	113,019	44,558	157,577	4,060,049			
67	2025					121,705	2,020,723	2,142,428	113,019	44,558	157,577	3,945,517			
68	2026					122,389	1,975,119	2,097,508	109,628	43,221	152,849	3,893,242			
69	2027					122,923	1,927,973	2,050,895	106,340	41,924	148,264	3,842,315			
70	2028					124,325	1,824,657	1,948,982	103,149	40,667	143,816	3,737,938			
71															
72						ratiion			Noncore - EOR			Total			
73						EG (<3MMThms) EG (>=3MMThms) EG (Total)			EOR (Dist.) EOR (Trans.) EOR (Total)			Retail Noncore			
74	Average Year Sales (Mth)														
75	2021	365				0	0	0	0	0	0	0			
76	2022	365				0	0	0	0	0	0	0			
77	2023	365				0	0	0	0	0	0	0			
78	2024	366				0	0	0	0	0	0	0			
79	2025	365				0	0	0	0	0	0	0			
80	2026	365				0	0	0	0	0	0	0			
81	2027	365				0	0	0	0	0	0	0			
82	2028	366				0	0	0	0	0	0	0			
83															
84															
85						ratiion			Noncore - EOR			Total			
86						EG (<3MMThms) EG (>=3MMThms) EG (Total)			EOR (Dist.) EOR (Trans.) EOR (Total)			Retail Noncore			
87	Cold Year Throughput (Mth)														
88	2021					128,308	2,340,236	2,468,544	94,332	35,731	130,063	4,230,042			
89	2022					121,748	2,348,312	2,470,060	113,019	44,558	157,577	4,274,200			
90	2023					121,103	2,334,373	2,455,475	113,019	44,558	157,577	4,263,109			
91	2024					120,874	2,133,290	2,254,164	113,019	44,558	157,577	4,062,914			
92	2025					121,705	2,020,723	2,142,428	113,019	44,558	157,577	3,948,382			
93	2026					122,389	1,975,119	2,097,508	109,628	43,221	152,849	3,896,107			
94	2027					122,923	1,927,973	2,050,895	106,340	41,924	148,264	3,845,180			
95	2028					124,325	1,824,657	1,948,982	103,149	40,667	143,816	3,740,803			
96															
97															
98						ratiion			Noncore - EOR			Total			
99	Specified Peak Day Throughput (Mth/Day)					EG (<3MMThms) EG (>=3MMThms) EG (Total)			EOR (Dist.) EOR (Trans.) EOR (Total)			Retail Noncore			
100	2021					319	6,127	6,446	258	98	356	12,775			
101	2022					338	6,507	6,846	310	122	432	13,099			
102	2023					364	6,394	6,758	310	122	432	13,018			
103	2024					343	6,076	6,420	310	122	432	12,688			
104	2025					348	5,777	6,124	310	122	432	12,390			
105	2026					342	5,590	5,932	300	118	419	12,183			
106	2027					353	5,834	6,187	291	115	406	12,429			
107	2028					341	5,520	5,861	283	111	394	12,090			
108															
109															
110						ratiion			Noncore - EOR			Total			
111						EG (<3MMThms) EG (>=3MMThms) EG (Total)			EOR (Dist.) EOR (Trans.) EOR (Total)			Retail Noncore			
112	Forecast Number of Customers														
113	2021					323	64	387	18	14	32	975			
114	2022					323	64	387	18	14	32	975			
115	2023					323	64	387	18	14	32	975			
116	2024					322	60	382	18	14	32	970			
117	2025					322	60	382	18	14	32	970			
118	2026					322	60	382	18	14	32	970			
119	2027					322	60	382	18	14	32	970			
120	2028					322	60	382	18	14	32	970			

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)														
59	ANNUAL FORECAST DATA														
60					Wholesale Noncore				Total		International NC		Total		
61	Average Year Throughput (Mth)														
62		Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale		Ecogas		Noncore					
63	2021	90,728	997,566	71,136	88,222	1,247,652		124,320		5,599,149					
64	2022	90,147	966,913	72,182	94,934	1,224,176		135,757		5,631,267					
65	2023	90,587	923,751	72,881	94,293	1,181,512		138,216		5,579,972					
66	2024	91,031	871,209	73,709	95,537	1,131,486		138,688		5,330,224					
67	2025	91,477	838,408	74,300	96,303	1,100,488		139,204		5,185,209					
68	2026	91,927	832,555	75,010	97,431	1,096,922		139,773		5,129,937					
69	2027	92,379	824,140	75,720	98,889	1,091,128		140,296		5,073,739					
70	2028	92,834	805,357	76,553	98,071	1,072,815		140,821		4,951,574					
71															
72					Wholesale Noncore				Total		International NC		Total		
73	Average Year Sales (Mth)														
74		Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale		Ecogas		Noncore					
75	2021	0	0	0	0	0		0		0					
76	2022	0	0	0	0	0		0		0					
77	2023	0	0	0	0	0		0		0					
78	2024	0	0	0	0	0		0		0					
79	2025	0	0	0	0	0		0		0					
80	2026	0	0	0	0	0		0		0					
81	2027	0	0	0	0	0		0		0					
82	2028	0	0	0	0	0		0		0					
83															
84					Wholesale Noncore				Total		International NC		Total		
85	Cold Year Throughput (Mth)														
86		Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale		Ecogas		Noncore					
87	2021	90,728	1,032,585	71,136	88,222	1,282,671		124,320		5,637,034					
88	2022	96,878	1,001,901	77,762	94,943	1,271,485		135,757		5,681,442					
89	2023	97,363	958,709	78,515	95,264	1,229,852		138,216		5,631,177					
90	2024	97,811	906,137	79,406	96,399	1,179,753		138,688		5,381,356					
91	2025	98,316	873,306	80,044	97,257	1,148,923		139,204		5,236,509					
92	2026	98,763	867,422	80,809	98,093	1,145,088		139,773		5,180,968					
93	2027	99,278	858,978	81,575	99,465	1,139,295		140,296		5,124,771					
94	2028	99,754	840,165	82,470	98,780	1,121,169		140,821		5,002,793					
95															
96					Wholesale Noncore				Total		International NC		Total		
97	Specified Peak Day Throughput (Mth/Day)														
98		Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale		Ecogas		Noncore					
99	2021	652	6,763	547	275	8,237		338		21,349					
100	2022	652	5,651	566	278	7,147		387		20,632					
101	2023	654	5,510	572	279	7,015		376		20,409					
102	2024	657	5,384	577	286	6,905		377		19,970					
103	2025	660	5,408	583	290	6,942		378		19,710					
104	2026	664	5,439	589	297	6,989		380		19,552					
105	2027	667	5,422	595	299	6,983		381		19,793					
106	2028	670	5,146	600	212	6,629		383		19,102					
107															
108					Wholesale Noncore				Total		International NC		Total		
109	Forecast Number of Customers														
110		Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale		Ecogas		Noncore					
111	2021	1	1	1	1	4		1		980					
112	2022	1	1	1	1	4		1		980					
113	2023	1	1	1	1	4		1		980					
114	2024	1	1	1	1	4		1		975					
115	2025	1	1	1	1	4		1		975					
116	2026	1	1	1	1	4		1		975					
117	2027	1	1	1	1	4		1		975					
118	2028	1	1	1	1	4		1		975					
119															
120															

	A	B	C	D	E	AO	AP	AQ	AR	AS	AT	AU
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)											
59	<u>ANNUAL FORECAST DATA</u>											
60						Total System End- Use Dmd		System Total (Mdth/d)		Co-Use-Fuel	"Un-Acnt'd- For" (UAF)	Total System Throughput
61	Average Year Throughput (Mth)											
62	2021					9,067,091		2,484		25,243	72,117	9,164,451
63	2022					9,065,515		2,484		25,238	72,105	9,162,858
64	2023					8,969,044		2,457		24,970	71,337	9,065,351
65	2024					8,666,265		2,368		24,127	68,929	8,759,321
66	2025					8,463,665		2,319		23,563	67,318	8,554,545
67	2026					8,356,111		2,289		23,263	66,462	8,445,837
68	2027					8,246,493		2,259		22,958	65,590	8,335,041
69	2028					8,068,239		2,204		22,462	64,172	8,154,874
70												
71												
72						Total System End- Use Dmd		Check of System Total (Mdth/d)				
73												
74	Average Year Sales (Mth)											
75	2021		365			3,225,476		884				
76	2022		365			3,193,104		875				
77	2023		365			3,149,819		863				
78	2024		366			3,098,492		847				
79	2025		365			3,042,404		834				
80	2026		365			2,991,274		820				
81	2027		365			2,938,901		805				
82	2028		366			2,883,904		788				
83												
84												
85						Total System End- Use Dmd		Check of System Total (Mdth/d)		Co-Use-Fuel	"Un-Acnt'd- For" (UAF)	System Throughput
86												
87	Cold Year Throughput (Mth)											
88	2021					9,326,666		2,555		25,965	74,182	9,426,813
89	2022					9,336,985		2,558		25,994	74,264	9,437,243
90	2023					9,237,839		2,531		25,718	73,475	9,337,032
91	2024					8,931,095		2,440		24,864	71,035	9,026,994
92	2025					8,724,840		2,390		24,290	69,395	8,818,525
93	2026					8,613,365		2,360		23,979	68,508	8,705,853
94	2027					8,500,163		2,329		23,664	67,608	8,591,435
95	2028					8,318,577		2,273		23,159	66,164	8,407,900
96												
97												
98						Total System End- Use Dmd						
99	Specified Peak Day Throughput (Mth/Day)											
100	2021					51,199						
101	2022					50,243						
102	2023					49,591						
103	2024					48,689						
104	2025					47,945						
105	2026					47,331						
106	2027					47,112						
107	2028					45,953						
108												
109												
110						Total System						
111												
112	Forecast Number of Customers											
113	2021					5,873,165						
114	2022					5,915,882						
115	2023					5,958,215						
116	2024					5,999,254						
117	2025					6,039,227						
118	2026					6,078,709						
119	2027					6,117,743						
120	2028					6,155,470						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																			
59	MONTHLY FORECAST DATA																			
60						Nonresidential Core					Total	Noncore - G-30			Noncore - Electric Gene					
61	Average Year Throughput (Mth)					Residential	G-10	G-AC	G-GE	G-NGV	Core	G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)		
62	2021	Jan	321,140	105,022	5	903	10,865	437,936	76,618	69,522	146,141	8,754	652	15,930	134,666					
63		Feb	279,650	99,093	8	1,047	10,478	390,277	66,408	51,798	118,206	7,340	692	14,487	94,983					
64		Mar	244,130	91,444	1	1,254	12,321	349,150	78,025	67,201	145,226	8,545	1,174	17,138	143,932					
65		Apr	201,956	84,170	5	1,611	12,304	300,046	74,298	61,028	135,326	8,146	1,193	16,251	153,890					
66		May	145,942	72,721	10	2,093	12,322	233,089	71,949	56,486	128,435	9,178	1,356	17,315	152,067					
67		Jun	112,472	67,385	11	2,774	12,798	195,440	71,049	59,997	131,046	9,684	2,511	18,056	202,803					
68		Jul	107,999	65,425	18	3,046	13,182	189,669	70,942	54,528	125,470	11,418	3,367	18,130	295,909					
69		Aug	107,758	65,384	19	2,911	13,893	189,965	75,789	61,966	137,755	10,491	2,513	18,298	261,626					
70		Sep	106,536	66,676	17	2,438	13,717	189,384	77,907	60,395	138,302	9,698	1,466	17,458	199,586					
71		Oct	132,867	71,902	13	1,853	13,798	220,433	76,647	66,233	142,880	8,524	1,580	16,198	179,037					
72		Nov	212,826	86,533	10	1,184	13,348	313,900	71,767	62,241	134,008	8,589	1,487	16,641	168,035					
73		Dec	337,264	107,018	10	864	13,497	458,652	76,762	69,014	145,776	8,883	1,066	17,262	150,538					
74																				
75	2022	Jan	319,042	102,638	8	755	11,034	433,477	78,037	66,289	144,326	9,731	477	17,842	161,033					
76		Feb	277,838	96,857	10	864	10,644	386,213	70,112	57,352	127,463	8,230	617	15,986	146,234					
77		Mar	242,644	89,402	7	1,100	12,520	345,673	75,470	62,662	138,132	9,156	452	17,646	162,097					
78		Apr	200,865	82,323	9	1,146	12,504	296,848	73,394	60,418	133,813	8,943	510	17,154	155,185					
79		May	145,261	71,151	10	1,732	12,523	230,677	73,442	60,273	133,715	9,641	573	18,741	174,902					
80		Jun	112,053	66,209	12	2,304	13,008	193,586	70,595	60,642	131,237	9,611	587	18,224	185,771					
81		Jul	107,625	64,038	15	2,687	13,399	187,765	74,141	61,052	135,193	10,102	885	19,937	210,464					
82		Aug	107,386	63,999	18	2,748	14,126	188,277	78,443	62,307	140,750	10,479	899	20,268	225,241					
83		Sep	106,158	65,261	16	2,454	13,947	187,835	78,180	61,593	139,773	9,745	836	19,157	208,852					
84		Oct	132,296	70,359	15	1,816	14,035	218,521	76,424	65,561	141,985	9,443	614	17,965	175,580					
85		Nov	211,615	84,623	13	1,326	13,583	311,160	72,356	62,765	135,120	9,589	477	17,722	158,304					
86		Dec	335,001	104,574	9	898	13,734	454,216	75,472	66,718	142,190	9,671	483	18,107	165,901					
87																				
88	2023	Jan	315,656	99,747	8	755	11,230	427,395	77,895	66,159	144,054	9,811	479	17,894	165,063					
89		Feb	274,902	94,152	10	864	10,837	380,765	69,712	56,679	126,391	8,304	617	15,862	145,197					
90		Mar	240,174	86,958	7	1,100	12,752	340,991	75,769	62,542	138,311	9,121	450	17,729	163,131					
91		Apr	198,955	80,121	9	1,146	12,735	292,967	73,908	60,578	134,486	9,025	439	17,254	154,779					
92		May	143,985	69,295	10	1,732	12,753	227,775	74,035	60,480	134,516	9,555	489	18,755	174,929					
93		Jun	111,172	64,272	12	2,304	13,251	191,011	71,374	61,025	132,399	9,501	544	18,003	185,541					
94		Jul	106,806	62,410	15	2,687	13,650	185,568	74,924	61,335	136,259	10,035	866	19,694	208,936					
95		Aug	106,571	62,372	18	2,748	14,395	186,104	79,230	62,599	141,829	10,396	905	20,041	217,660					
96		Sep	105,340	63,611	16	2,454	14,213	185,634	78,948	61,892	140,840	9,694	816	19,029	203,974					
97		Oct	131,183	68,565	15	1,816	14,307	215,885	75,920	64,824	140,743	9,353	615	17,836	173,708					
98		Nov	209,545	82,347	13	1,326	13,853	307,084	72,380	62,618	134,999	9,497	479	17,472	157,971					
99		Dec	331,387	101,592	9	898	14,007	447,893	75,646	66,719	142,365	9,626	485	18,055	165,858					
100																				
101	2024	Jan	310,898	97,050	8	755	11,458	420,168	77,443	65,908	143,350	9,706	479	18,101	148,539					
102		Feb	270,772	91,623	10	864	11,060	374,329	70,516	58,873	129,389	8,181	632	16,379	138,206					
103		Mar	236,659	84,655	7	1,100	13,022	335,443	75,614	62,610	138,223	8,999	450	17,769	146,423					
104		Apr	196,175	78,038	9	1,146	13,001	288,370	73,454	60,344	133,798	8,959	440	17,272	141,240					
105		May	142,076	67,527	10	1,732	13,019	224,364	73,562	60,219	133,782	9,580	488	18,770	154,331					
106		Jun	109,799	62,660	12	2,304	13,531	188,307	70,924	60,792	131,716	9,569	588	18,130	162,497					
107		Jul	105,515	60,848	15	2,687	13,940	183,005	74,682	61,364	136,047	10,110	865	19,749	189,919					
108		Aug	105,284	60,812	18	2,748	14,706	183,567	78,987	62,637	141,624	10,379	903	19,949	196,909					
109		Sep	104,058	62,022	16	2,454	14,519	183,068	78,553	61,753	140,306	9,668	798	18,922	180,442					
110		Oct	129,491	66,836	15	1,816	14,621	212,779	76,350	65,643	141,993	9,435	618	18,132	160,066					
111		Nov	206,559	80,194	13	1,326	14,164	302,256	72,477	63,040	135,516	9,430	480	17,897	143,350					
112		Dec	326,334	98,822	9	898	14,322	440,385	75,593	66,972	142,564	9,631	487	18,265	152,035					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																			
59	MONTHLY FORECAST DATA																			
60			Nonresidential Core					Total	Noncore - G-30			Noncore - Electric Gene								
61		Residential	G-10	G-AC	G-GE	G-NGV	Core	G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)						
113	Average Year Throughput (Mth)																			
114	2025	Jan	305,162	94,604	8	755	11,703	412,232	77,377	66,148	143,525	9,701	482	18,179	140,365					
115		Feb	265,790	89,331	10	864	11,300	367,295	69,656	57,121	126,777	8,196	620	16,174	126,452					
116		Mar	232,396	82,568	7	1,100	13,313	329,383	75,481	62,808	138,289	9,066	455	17,879	138,440					
117		Apr	192,772	76,151	9	1,146	13,288	283,367	73,236	60,477	133,713	8,981	506	17,366	133,534					
118		May	139,714	65,925	10	1,732	13,305	220,686	73,362	60,378	133,741	9,669	479	18,874	146,500					
119		Jun	108,074	61,201	12	2,304	13,834	185,424	70,734	60,926	131,660	9,617	578	18,227	152,960					
120		Jul	103,884	59,435	15	2,687	14,252	180,273	74,598	61,676	136,274	10,144	857	19,797	176,015					
121		Aug	103,657	59,399	18	2,748	15,041	180,864	78,868	62,906	141,774	10,497	899	20,065	182,690					
122		Sep	102,440	60,584	16	2,454	14,849	180,342	78,396	61,971	140,366	9,738	795	19,033	171,141					
123		Oct	127,386	65,270	15	1,816	14,961	209,447	75,999	65,623	141,622	9,541	620	18,219	151,214					
124		Nov	202,919	78,243	13	1,326	14,502	297,003	72,180	63,087	135,267	9,611	483	18,066	136,169					
125		Dec	320,256	96,311	9	898	14,663	432,137	75,379	67,127	142,506	9,679	489	18,353	145,011					
126																				
127	2026	Jan	299,768	92,452	8	755	11,960	404,943	77,134	66,260	143,394	9,750	483	18,209	138,129					
128		Feb	261,105	87,315	10	864	11,552	360,846	69,406	57,209	126,615	8,272	621	16,157	122,034					
129		Mar	228,389	80,736	7	1,100	13,618	323,850	75,141	62,803	137,944	9,203	459	17,901	135,928					
130		Apr	189,578	74,498	9	1,146	13,590	278,820	72,953	60,459	133,412	8,985	516	17,395	128,557					
131		May	137,499	64,525	10	1,732	13,606	217,371	73,042	60,317	133,359	9,676	514	18,901	139,408					
132		Jun	106,458	59,928	12	2,304	14,151	182,853	70,397	60,882	131,279	9,619	587	18,258	148,320					
133		Jul	102,358	58,202	15	2,687	14,581	177,842	74,373	61,715	136,088	10,205	858	19,871	171,526					
134		Aug	102,135	58,167	18	2,748	15,395	178,463	78,639	62,949	141,588	10,537	901	20,150	178,720					
135		Sep	100,926	59,329	16	2,454	15,197	177,921	78,176	62,020	140,196	9,798	796	19,196	169,250					
136		Oct	125,412	63,904	15	1,816	15,320	206,466	75,852	65,685	141,537	9,564	620	18,252	147,649					
137		Nov	199,500	76,533	13	1,326	14,858	292,230	71,967	63,066	135,033	9,584	482	18,126	134,171					
138		Dec	314,539	94,098	9	898	15,024	424,569	75,235	67,206	142,440	9,869	490	18,374	140,636					
139																				
140	2027	Jan	294,010	90,419	8	755	12,246	397,438	77,045	66,391	143,436	9,839	483	18,212	130,452					
141		Feb	256,104	85,411	10	864	11,832	354,220	69,311	57,312	126,624	8,271	622	16,260	117,673					
142		Mar	224,103	79,009	7	1,100	13,958	318,177	75,021	62,886	137,907	9,201	460	17,922	128,105					
143		Apr	186,147	72,941	9	1,146	13,924	274,167	72,875	60,544	133,419	9,134	517	17,416	122,021					
144		May	135,110	63,209	10	1,732	13,939	213,999	72,953	60,391	133,344	9,744	580	18,992	132,440					
145		Jun	104,705	58,733	12	2,304	14,503	180,258	70,317	60,961	131,278	9,763	585	18,288	139,883					
146		Jul	100,699	57,045	15	2,687	14,945	175,390	74,315	61,804	136,119	10,238	860	20,071	166,361					
147		Aug	100,481	57,011	18	2,748	15,786	176,044	78,581	63,045	141,626	10,582	902	20,379	184,949					
148		Sep	99,281	58,153	16	2,454	15,583	175,486	78,119	62,115	140,235	9,756	796	19,673	173,596					
149		Oct	123,279	62,623	15	1,816	15,716	203,449	75,790	65,794	141,584	9,593	621	18,274	143,932					
150		Nov	195,835	74,923	13	1,326	15,252	287,349	71,911	63,179	135,090	9,659	484	18,208	128,576					
151		Dec	308,442	92,005	9	898	15,423	416,777	75,168	67,325	142,493	9,743	491	18,399	137,893					
152																				
153	2028	Jan	287,921	88,348	8	755	12,546	389,578	76,938	66,533	143,471	9,840	484	18,150	123,844					
154		Feb	250,812	83,471	10	864	12,126	347,282	69,904	59,331	129,235	8,330	636	16,126	117,017					
155		Mar	219,561	77,245	7	1,100	14,315	312,228	74,893	62,992	137,885	9,290	460	17,963	123,158					
156		Apr	182,501	71,348	9	1,146	14,274	269,278	72,711	60,632	133,343	9,112	514	17,492	119,017					
157		May	132,561	61,859	10	1,732	14,289	210,450	72,793	60,485	133,277	9,928	502	18,967	129,045					
158		Jun	102,827	57,505	12	2,304	14,874	177,521	70,164	61,056	131,220	9,875	578	18,222	133,719					
159		Jul	98,918	55,855	15	2,687	15,327	172,802	74,132	61,898	136,031	10,404	861	19,738	154,614					
160		Aug	98,705	55,822	18	2,748	16,198	173,490	78,391	63,141	141,532	10,694	902	20,096	164,301					
161		Sep	97,516	56,943	16	2,454	15,988	172,916	77,929	62,205	140,134	10,018	797	19,183	152,678					
162		Oct	120,999	61,305	15	1,816	16,134	200,269	75,614	65,901	141,516	9,776	622	18,120	135,629					
163		Nov	191,944	73,276	13	1,326	15,667	282,226	71,736	63,286	135,023	9,809	485	18,051	121,487					
164		Dec	301,999	89,877	9	898	15,843	408,625	75,007	67,467	142,473	9,917	492	18,191	129,849					

	A	B	C	D	E	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																			
59	MONTHLY FORECAST DATA																			
60	ratiion			Noncore - EOR			Total		Wholesale Noncore					Total						
61	Average Year Throughput (Mth)			EG (<3MMThms) EG (>=3MMThms) EG (Total)			EOR (Dist.) EOR (Trans.) EOR (Total)		Retail Noncore	Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale						
62	2021	Jan	9,406	150,596	160,001	8,012	3,035	11,046	317,188	9,193	96,880	11,576	7,538	125,187						
63		Feb	8,032	109,470	117,502	7,236	2,741	9,977	245,685	9,697	78,903	10,477	5,954	105,032						
64		Mar	9,720	161,070	170,790	8,012	3,035	11,046	327,062	7,632	84,895	9,855	5,865	108,247						
65		Apr	9,340	170,140	179,480	7,753	2,937	10,690	325,496	7,497	75,113	6,499	7,202	96,312						
66		May	10,535	169,383	179,917	8,012	3,035	11,046	319,398	7,311	75,072	4,107	7,761	94,251						
67		Jun	12,195	220,859	233,055	7,753	2,937	10,690	374,791	6,150	72,781	3,712	7,787	90,430						
68		Jul	14,785	314,039	328,824	8,012	3,035	11,046	465,341	6,066	86,195	2,789	8,161	103,211						
69		Aug	13,003	279,923	292,927	8,012	3,035	11,046	441,729	5,535	73,881	2,882	7,903	90,200						
70		Sep	11,164	217,044	228,208	7,753	2,937	10,690	377,200	5,753	70,130	2,910	7,522	86,315						
71		Oct	10,104	195,235	205,339	8,012	3,035	11,046	359,266	6,187	81,206	3,601	8,154	99,148						
72		Nov	10,076	184,676	194,752	7,753	2,937	10,690	339,450	8,139	93,201	4,888	7,262	113,489						
73		Dec	9,949	167,800	177,749	8,012	3,035	11,046	334,571	11,569	109,308	7,840	7,114	135,830						
74																				
75	2022	Jan	10,208	178,874	189,082	9,599	3,784	13,383	346,791	9,134	100,853	11,607	8,040	129,634						
76		Feb	8,847	162,220	171,067	8,670	3,418	12,088	310,618	9,635	91,094	9,486	6,665	116,880						
77		Mar	9,608	179,743	189,351	9,599	3,784	13,383	340,867	7,583	87,811	7,499	7,149	110,041						
78		Apr	9,453	172,339	181,792	9,289	3,662	12,952	328,556	7,449	79,690	5,249	7,691	100,079						
79		May	10,213	193,643	203,857	9,599	3,784	13,383	350,955	7,265	71,144	4,241	7,702	90,352						
80		Jun	10,198	203,995	214,193	9,289	3,662	12,952	358,382	6,110	66,432	3,010	8,047	83,600						
81		Jul	10,987	230,401	241,388	9,599	3,784	13,383	389,965	6,027	70,102	2,579	8,578	87,286						
82		Aug	11,378	245,508	256,886	9,599	3,784	13,383	411,019	5,499	72,175	2,802	8,726	89,202						
83		Sep	10,581	228,009	238,590	9,289	3,662	12,952	391,315	5,716	70,824	2,857	8,165	87,562						
84		Oct	10,057	193,545	203,602	9,599	3,784	13,383	358,971	6,148	71,598	4,255	8,565	90,565						
85		Nov	10,066	176,025	186,091	9,289	3,662	12,952	334,163	8,086	81,610	7,103	7,506	104,305						
86		Dec	10,153	184,008	194,162	9,599	3,784	13,383	349,735	11,495	103,580	11,494	8,101	134,670						
87																				
88	2023	Jan	10,290	182,957	193,247	9,599	3,784	13,383	350,684	9,175	97,536	11,720	7,887	126,318						
89		Feb	8,921	161,060	169,981	8,670	3,418	12,088	308,460	9,678	88,003	9,578	6,863	114,121						
90		Mar	9,571	180,860	190,431	9,599	3,784	13,383	342,125	7,620	84,516	7,571	6,719	106,426						
91		Apr	9,464	172,033	181,497	9,289	3,662	12,952	328,935	7,489	76,127	5,299	7,297	96,211						
92		May	10,045	193,684	203,729	9,599	3,784	13,383	351,628	7,304	68,169	4,282	7,477	87,231						
93		Jun	10,045	203,544	213,589	9,289	3,662	12,952	358,940	6,145	63,242	3,039	7,948	80,374						
94		Jul	10,901	228,630	239,531	9,599	3,784	13,383	389,174	6,059	66,162	2,603	8,475	83,299						
95		Aug	11,301	237,701	249,002	9,599	3,784	13,383	404,215	5,529	67,359	2,828	8,780	84,496						
96		Sep	10,510	223,003	233,512	9,289	3,662	12,952	387,304	5,745	66,716	2,885	8,029	83,375						
97		Oct	9,967	191,544	201,511	9,599	3,784	13,383	355,637	6,179	68,105	4,295	8,710	87,290						
98		Nov	9,976	175,443	185,419	9,289	3,662	12,952	333,369	8,121	78,512	7,172	8,188	101,993						
99		Dec	10,111	183,913	194,025	9,599	3,784	13,383	349,773	11,544	99,303	11,608	7,921	130,377						
100																				
101	2024	Jan	10,184	166,640	176,824	9,599	3,784	13,383	333,557	9,215	92,388	11,836	7,906	121,345						
102		Feb	8,814	154,586	163,399	8,670	3,418	12,088	304,876	9,721	84,943	9,790	7,219	111,673						
103		Mar	9,449	164,192	173,641	9,599	3,784	13,383	325,248	7,658	79,570	7,645	7,306	102,180						
104		Apr	9,399	158,512	167,911	9,289	3,662	12,952	314,661	7,529	71,565	5,350	6,913	91,358						
105		May	10,068	173,101	183,169	9,599	3,784	13,383	330,334	7,344	63,647	4,324	7,392	82,706						
106		Jun	10,157	180,626	190,783	9,289	3,662	12,952	335,451	6,181	59,060	3,068	7,822	76,131						
107		Jul	10,975	209,668	220,643	9,599	3,784	13,383	370,073	6,091	62,421	2,628	9,122	80,261						
108		Aug	11,282	216,858	228,140	9,599	3,784	13,383	383,147	5,558	62,583	2,855	8,597	79,593						
109		Sep	10,465	199,364	209,829	9,289	3,662	12,952	363,087	5,774	61,849	2,912	8,211	78,746						
110		Oct	10,053	178,197	188,250	9,599	3,784	13,383	343,626	6,210	64,119	4,337	9,036	83,702						
111		Nov	9,910	161,247	171,158	9,289	3,662	12,952	319,626	8,157	74,311	7,242	7,750	97,459						
112		Dec	10,117	170,300	180,417	9,599	3,784	13,383	336,365	11,595	94,753	11,722	8,263	126,333						

	A	B	C	D	E	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																			
59	MONTHLY FORECAST DATA																			
60	ratiion					Noncore - EOR			Total		Wholesale Noncore					Total				
61	Average Year Throughput (Mth)					EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore	Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale			
113																				
114	2025	Jan	10,183	158,544	168,727	9,599	3,784	13,383	325,635	9,256	90,461	11,952	8,270	119,939						
115		Feb	8,816	142,627	151,443	8,670	3,418	12,088	290,308	9,764	80,769	9,766	7,048	107,347						
116		Mar	9,521	156,319	165,839	9,599	3,784	13,383	317,512	7,696	76,610	7,719	7,213	99,237						
117		Apr	9,487	150,901	160,388	9,289	3,662	12,952	307,052	7,569	68,304	5,402	7,295	88,570						
118		May	10,148	165,374	175,523	9,599	3,784	13,383	322,646	7,383	61,054	4,365	7,353	80,156						
119		Jun	10,195	171,187	181,382	9,289	3,662	12,952	325,993	6,217	58,203	3,097	8,107	75,624						
120		Jul	11,001	195,812	206,813	9,599	3,784	13,383	356,470	6,123	60,314	2,653	8,773	77,863						
121		Aug	11,396	202,754	214,150	9,599	3,784	13,383	369,307	5,588	59,799	2,882	8,761	77,030						
122		Sep	10,534	190,175	200,708	9,289	3,662	12,952	354,026	5,803	58,046	2,939	8,677	75,465						
123		Oct	10,162	169,432	179,594	9,599	3,784	13,383	334,599	6,241	61,018	4,378	8,701	80,337						
124		Nov	10,094	154,234	164,328	9,289	3,662	12,952	312,547	8,192	71,615	7,312	7,927	95,046						
125		Dec	10,168	163,364	173,532	9,599	3,784	13,383	329,422	11,645	92,214	11,836	8,178	123,873						
126																				
127	2026	Jan	10,233	156,339	166,571	9,311	3,671	12,982	322,947	9,297	88,451	12,068	8,743	118,558						
128		Feb	8,893	138,191	147,084	8,410	3,316	11,725	285,425	9,807	80,188	9,860	7,038	106,893						
129		Mar	9,662	153,829	163,490	9,311	3,671	12,982	314,416	7,735	76,571	7,793	7,302	99,400						
130		Apr	9,501	145,953	155,454	9,011	3,552	12,563	301,428	7,609	68,285	5,453	7,382	88,730						
131		May	10,189	158,309	168,498	9,311	3,671	12,982	314,839	7,424	59,710	4,407	7,616	79,156						
132		Jun	10,205	166,578	176,783	9,011	3,552	12,563	320,625	6,253	56,765	3,127	8,268	74,413						
133		Jul	11,063	191,397	202,460	9,311	3,671	12,982	351,530	6,155	59,725	2,677	9,124	77,682						
134		Aug	11,439	198,870	210,309	9,311	3,671	12,982	364,879	5,618	61,679	2,909	8,546	78,751						
135		Sep	10,595	188,446	199,040	9,011	3,552	12,563	351,799	5,833	59,567	2,967	8,550	76,917						
136		Oct	10,185	165,901	176,085	9,311	3,671	12,982	330,604	6,272	61,027	4,419	8,743	80,461						
137		Nov	10,065	152,297	162,363	9,011	3,552	12,563	309,959	8,227	70,342	7,381	8,067	94,018						
138		Dec	10,359	159,010	169,369	9,311	3,671	12,982	324,791	11,696	90,245	11,950	8,052	121,943						
139																				
140	2027	Jan	10,322	148,664	158,986	9,032	3,561	12,592	315,014	9,338	87,730	12,184	8,062	117,314						
141		Feb	8,893	133,932	142,825	8,158	3,216	11,374	280,822	9,851	78,327	9,954	7,293	105,425						
142		Mar	9,660	146,027	155,688	9,032	3,561	12,592	306,187	7,773	75,867	7,866	7,397	98,904						
143		Apr	9,651	139,437	149,088	8,740	3,446	12,186	294,693	7,650	65,981	5,504	7,615	86,750						
144		May	10,324	151,432	161,755	9,032	3,561	12,592	307,692	7,464	59,117	4,448	7,659	78,688						
145		Jun	10,348	158,171	168,519	8,740	3,446	12,186	311,984	6,289	57,573	3,156	8,420	75,438						
146		Jul	11,098	186,431	197,529	9,032	3,561	12,592	346,240	6,188	60,139	2,702	8,935	77,964						
147		Aug	11,484	205,328	216,811	9,032	3,561	12,592	371,030	5,649	58,311	2,936	9,005	75,901						
148		Sep	10,552	193,269	203,821	8,740	3,446	12,186	356,242	5,862	60,342	2,994	8,587	77,785						
149		Oct	10,214	162,206	172,421	9,032	3,561	12,592	326,597	6,304	61,236	4,460	8,700	80,700						
150		Nov	10,144	146,783	156,927	8,740	3,446	12,186	304,203	8,263	70,066	7,451	8,530	94,310						
151		Dec	10,234	156,292	166,526	9,032	3,561	12,592	321,611	11,747	89,452	12,064	8,686	121,949						
152																				
153	2028	Jan	10,324	141,995	152,319	8,761	3,454	12,215	308,004	9,380	85,955	12,300	8,401	116,036						
154		Feb	8,966	133,144	142,110	7,913	3,120	11,032	282,378	9,894	77,368	10,172	7,394	104,828						
155		Mar	9,750	141,121	150,871	8,761	3,454	12,215	300,971	7,812	72,856	7,940	7,540	96,149						
156		Apr	9,626	136,509	146,135	8,478	3,342	11,820	291,298	7,691	65,916	5,555	7,455	86,617						
157		May	10,430	148,011	158,441	8,761	3,454	12,215	303,933	7,505	58,130	4,490	7,556	77,681						
158		Jun	10,452	151,941	162,393	8,478	3,342	11,820	305,434	6,326	55,638	3,185	7,953	73,102						
159		Jul	11,265	174,352	185,617	8,761	3,454	12,215	333,862	6,221	57,356	2,727	8,959	75,263						
160		Aug	11,596	184,397	195,992	8,761	3,454	12,215	349,739	5,679	59,014	2,962	8,577	76,232						
161		Sep	10,814	171,861	182,675	8,478	3,342	11,820	334,630	5,892	57,346	3,022	8,452	74,712						
162		Oct	10,398	153,750	164,148	8,761	3,454	12,215	317,878	6,336	59,337	4,501	9,195	79,369						
163		Nov	10,295	139,537	149,832	8,478	3,342	11,820	296,675	8,299	68,687	7,520	8,310	92,816						
164		Dec	10,409	148,040	158,449	8,761	3,454	12,215	313,137	11,798	87,753	12,178	8,278	120,008						

	A	B	C	D	E	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																
59	<u>MONTHLY FORECAST DATA</u>		International NC	Total	Total System End-Use Dmd	System Total									"Un-Acnt'd-For" (UAF)	Total System Throughput	
60		Ecogas	Noncore		(Mdt/d)	Co-Use-Fuel											
61	Average Year Throughput (Mth)																
62	2021	Jan	9,551	451,926	889,862	2,871	2,477	7,078	899,417								
63		Feb	8,077	358,795	749,071	2,675	2,085	5,958	757,115								
64		Mar	10,078	445,387	794,537	2,563	2,212	6,320	803,068								
65		Apr	9,229	431,037	731,082	2,437	2,035	5,815	738,932								
66		May	9,502	423,152	656,240	2,117	1,827	5,220	663,287								
67		Jun	12,265	477,485	672,926	2,243	1,873	5,352	680,151								
68		Jul	12,238	580,790	770,459	2,485	2,145	6,128	778,732								
69		Aug	12,752	544,681	734,646	2,370	2,045	5,843	742,535								
70		Sep	12,092	475,606	664,991	2,217	1,851	5,289	672,131								
71		Oct	9,608	468,022	688,456	2,221	1,917	5,476	695,848								
72		Nov	9,355	462,294	776,194	2,587	2,161	6,174	784,529								
73		Dec	9,574	479,976	938,628	3,028	2,613	7,466	948,707								
74																	
75	2022	Jan	9,730	486,155	919,631	2,967	2,560	7,314	929,506								
76		Feb	8,652	436,150	822,363	2,937	2,289	6,541	831,193								
77		Mar	10,799	461,707	807,380	2,604	2,248	6,422	816,049								
78		Apr	10,577	439,212	736,060	2,454	2,049	5,854	743,963								
79		May	10,872	452,179	682,856	2,203	1,901	5,431	690,188								
80		Jun	12,967	454,948	648,535	2,162	1,806	5,158	655,498								
81		Jul	13,272	490,522	678,287	2,188	1,888	5,395	685,570								
82		Aug	13,414	513,635	701,913	2,264	1,954	5,583	709,449								
83		Sep	12,786	491,664	679,499	2,265	1,892	5,405	686,795								
84		Oct	10,995	460,531	679,052	2,190	1,890	5,401	686,343								
85		Nov	10,727	449,195	760,355	2,535	2,117	6,048	768,519								
86		Dec	10,965	495,371	949,587	3,063	2,644	7,553	959,783								
87																	
88	2023	Jan	10,444	487,446	914,841	2,951	2,547	7,276	924,665								
89		Feb	9,370	431,952	812,717	2,903	2,263	6,464	821,443								
90		Mar	11,517	460,069	801,060	2,584	2,230	6,371	809,662								
91		Apr	10,611	435,757	728,724	2,429	2,029	5,796	736,549								
92		May	10,906	449,766	677,541	2,186	1,886	5,389	684,817								
93		Jun	13,001	452,315	643,326	2,144	1,791	5,117	650,234								
94		Jul	13,306	485,779	671,347	2,166	1,869	5,340	678,556								
95		Aug	13,449	502,159	688,263	2,220	1,916	5,474	695,653								
96		Sep	12,820	483,499	669,133	2,230	1,863	5,322	676,318								
97		Oct	11,029	453,956	669,841	2,161	1,865	5,328	677,034								
98		Nov	10,761	446,123	753,207	2,511	2,097	5,991	761,294								
99		Dec	11,000	491,150	939,043	3,029	2,614	7,469	949,126								
100																	
101	2024	Jan	10,480	465,382	885,550	2,857	2,465	7,043	895,059								
102		Feb	9,407	425,956	800,285	2,760	2,228	6,365	808,879								
103		Mar	11,555	438,983	774,425	2,498	2,156	6,160	782,741								
104		Apr	10,650	416,668	705,038	2,350	1,963	5,608	712,608								
105		May	10,945	423,985	648,349	2,091	1,805	5,157	655,311								
106		Jun	13,041	424,622	612,929	2,043	1,706	4,875	619,511								
107		Jul	13,346	463,679	646,685	2,086	1,800	5,144	653,629								
108		Aug	13,489	476,229	659,795	2,128	1,837	5,248	666,880								
109		Sep	12,861	454,694	637,762	2,126	1,776	5,073	644,610								
110		Oct	11,070	438,399	651,178	2,101	1,813	5,179	658,170								
111		Nov	10,803	427,887	730,143	2,434	2,033	5,807	737,983								
112		Dec	11,042	473,740	914,124	2,949	2,545	7,271	923,940								

	A	B	C	D	E	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																
59	<u>MONTHLY FORECAST DATA</u>																
60			International NC	Total	Total												
61			Ecogas	Noncore	System End- Use Dmd	System Total									"Un-Acnt'd- For" (UAF)	Total System Throughput	
61	Average Year Throughput (Mth)																
113																	
114		2025	Jan	10,522	456,096	868,329	2,801							2,417	6,906	877,652	
115			Feb	9,449	407,104	774,399	2,766							2,156	6,159	782,714	
116			Mar	11,597	428,347	757,730	2,444							2,110	6,027	765,867	
117			Apr	10,692	406,315	689,682	2,299							1,920	5,486	697,087	
118			May	10,988	413,791	634,477	2,047							1,766	5,046	641,290	
119			Jun	13,084	414,701	600,125	2,000							1,671	4,773	606,569	
120			Jul	13,389	447,722	627,995	2,026							1,748	4,995	634,738	
121			Aug	13,532	459,869	640,733	2,067							1,784	5,096	647,613	
122			Sep	12,904	442,396	622,738	2,076							1,734	4,953	629,425	
123			Oct	11,114	426,050	635,498	2,050							1,769	5,055	642,322	
124			Nov	10,846	418,438	715,441	2,385							1,992	5,690	723,124	
125			Dec	11,086	464,381	896,518	2,892							2,496	7,131	906,145	
126																	
127		2026	Jan	10,567	452,072	857,015	2,765							2,386	6,816	866,218	
128			Feb	9,495	401,813	762,659	2,724							2,123	6,066	770,848	
129			Mar	11,644	425,459	749,309	2,417							2,086	5,960	757,355	
130			Apr	10,739	400,897	679,717	2,266							1,892	5,406	687,016	
131			May	11,035	405,030	622,402	2,008							1,733	4,950	629,085	
132			Jun	13,131	408,168	591,021	1,970							1,645	4,701	597,368	
133			Jul	13,437	442,648	620,490	2,002							1,727	4,935	627,153	
134			Aug	13,580	457,210	635,672	2,051							1,770	5,056	642,498	
135			Sep	12,952	441,668	619,590	2,065							1,725	4,928	626,243	
136			Oct	11,162	422,227	628,693	2,028							1,750	5,000	635,444	
137			Nov	10,895	414,872	707,102	2,357							1,969	5,624	714,695	
138			Dec	11,136	457,871	882,440	2,847							2,457	7,019	891,915	
139																	
140		2027	Jan	10,608	442,937	840,374	2,711							2,340	6,684	849,398	
141			Feb	9,537	395,784	750,004	2,679							2,088	5,965	758,058	
142			Mar	11,686	416,777	734,954	2,371							2,046	5,846	742,846	
143			Apr	10,782	392,225	666,392	2,221							1,855	5,300	673,548	
144			May	11,079	397,459	611,459	1,972							1,702	4,863	618,024	
145			Jun	13,175	400,596	580,854	1,936							1,617	4,620	587,091	
146			Jul	13,480	437,684	613,074	1,978							1,707	4,876	619,657	
147			Aug	13,624	460,554	636,598	2,054							1,772	5,063	643,434	
148			Sep	12,996	447,024	622,510	2,075							1,733	4,951	629,194	
149			Oct	11,207	418,504	621,952	2,006							1,732	4,947	628,630	
150			Nov	10,940	409,453	696,801	2,323							1,940	5,542	704,283	
151			Dec	11,182	454,742	871,519	2,811							2,426	6,932	880,878	
152																	
153		2028	Jan	10,650	434,690	824,267	2,659							2,295	6,556	833,118	
154			Feb	9,579	396,785	744,068	2,566							2,071	5,918	752,057	
155			Mar	11,729	408,849	721,077	2,326							2,007	5,735	728,820	
156			Apr	10,825	388,740	658,019	2,193							1,832	5,234	665,085	
157			May	11,122	392,737	603,187	1,946							1,679	4,798	609,664	
158			Jun	13,218	391,754	569,275	1,898							1,585	4,528	575,388	
159			Jul	13,524	422,649	595,451	1,921							1,658	4,736	601,844	
160			Aug	13,668	439,639	613,129	1,978							1,707	4,877	619,713	
161			Sep	13,041	422,383	595,299	1,984							1,657	4,735	601,691	
162			Oct	11,251	408,498	608,767	1,964							1,695	4,842	615,304	
163			Nov	10,985	400,477	682,702	2,276							1,901	5,430	690,033	
164			Dec	11,228	444,372	852,998	2,752							2,375	6,785	862,157	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	<p align="center">2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)</p>																	
1																		
167	<u>MONTHLY FORECAST DATA</u>																	
168																		
169	Average Year Sales (Mth)																	
170	2021 Jan		31	317,693	93,112	5	827	3,276	414,913	0	0	0	0	0	0	0	0	0
171	Feb		28	276,649	87,875	8	959	3,069	368,559	0	0	0	0	0	0	0	0	0
172	Mar		31	241,510	81,161	1	1,148	3,761	327,582	0	0	0	0	0	0	0	0	0
173	Apr		30	199,789	74,740	5	1,474	3,624	279,632	0	0	0	0	0	0	0	0	0
174	May		31	144,376	64,623	10	1,916	3,547	214,472	0	0	0	0	0	0	0	0	0
175	Jun		30	111,265	59,925	11	2,539	3,686	177,425	0	0	0	0	0	0	0	0	0
176	Jul		31	106,840	58,176	18	2,788	3,749	171,571	0	0	0	0	0	0	0	0	0
177	Aug		31	106,602	58,141	19	2,664	4,293	171,719	0	0	0	0	0	0	0	0	0
178	Sep		30	105,393	59,316	17	2,231	4,346	171,303	0	0	0	0	0	0	0	0	0
179	Oct		31	131,441	63,965	13	1,696	4,394	201,509	0	0	0	0	0	0	0	0	0
180	Nov		30	210,542	76,839	10	1,083	4,414	292,888	0	0	0	0	0	0	0	0	0
181	Dec		31	333,644	94,833	10	791	4,626	433,903	0	0	0	0	0	0	0	0	0
182																		
183	2022 Jan		31	315,618	90,997	8	691	3,346	410,660	0	0	0	0	0	0	0	0	0
184	Feb		28	274,856	85,891	10	791	3,139	364,686	0	0	0	0	0	0	0	0	0
185	Mar		31	240,040	79,348	7	1,006	3,850	324,251	0	0	0	0	0	0	0	0	0
186	Apr		30	198,709	73,100	9	1,049	3,712	276,579	0	0	0	0	0	0	0	0	0
187	May		31	143,702	63,227	10	1,585	3,634	212,158	0	0	0	0	0	0	0	0	0
188	Jun		30	110,851	58,875	12	2,109	3,778	175,624	0	0	0	0	0	0	0	0	0
189	Jul		31	106,470	56,942	15	2,460	3,845	169,731	0	0	0	0	0	0	0	0	0
190	Aug		31	106,234	56,907	18	2,516	4,402	170,077	0	0	0	0	0	0	0	0	0
191	Sep		30	105,018	58,055	16	2,246	4,455	169,790	0	0	0	0	0	0	0	0	0
192	Oct		31	130,877	62,591	15	1,662	4,509	199,653	0	0	0	0	0	0	0	0	0
193	Nov		30	209,344	75,141	13	1,214	4,533	290,245	0	0	0	0	0	0	0	0	0
194	Dec		31	331,406	92,666	9	822	4,748	429,650	0	0	0	0	0	0	0	0	0
195																		
196	2023 Jan		31	312,268	88,446	8	691	3,443	404,856	0	0	0	0	0	0	0	0	0
197	Feb		28	271,952	83,504	10	791	3,234	359,491	0	0	0	0	0	0	0	0	0
198	Mar		31	237,597	77,190	7	1,006	3,970	319,770	0	0	0	0	0	0	0	0	0
199	Apr		30	196,820	71,155	9	1,049	3,829	272,862	0	0	0	0	0	0	0	0	0
200	May		31	142,440	61,587	10	1,585	3,749	209,371	0	0	0	0	0	0	0	0	0
201	Jun		30	109,978	57,165	12	2,109	3,901	173,165	0	0	0	0	0	0	0	0	0
202	Jul		31	105,660	55,503	15	2,460	3,972	167,609	0	0	0	0	0	0	0	0	0
203	Aug		31	105,427	55,469	18	2,516	4,545	167,975	0	0	0	0	0	0	0	0	0
204	Sep		30	104,210	56,597	16	2,246	4,598	167,666	0	0	0	0	0	0	0	0	0
205	Oct		31	129,775	61,005	15	1,662	4,658	197,114	0	0	0	0	0	0	0	0	0
206	Nov		30	207,296	73,132	13	1,214	4,686	286,340	0	0	0	0	0	0	0	0	0
207	Dec		31	327,830	90,035	9	822	4,905	423,601	0	0	0	0	0	0	0	0	0
208																		
209	2024 Jan		31	307,561	86,059	8	691	3,570	397,889	0	0	0	0	0	0	0	0	0
210	Feb		29	267,867	81,265	10	791	3,358	353,291	0	0	0	0	0	0	0	0	0
211	Mar		31	234,119	75,150	7	1,006	4,125	314,408	0	0	0	0	0	0	0	0	0
212	Apr		30	194,070	69,309	9	1,049	3,980	268,416	0	0	0	0	0	0	0	0	0
213	May		31	140,551	60,019	10	1,585	3,898	206,064	0	0	0	0	0	0	0	0	0
214	Jun		30	108,621	55,734	12	2,109	4,060	170,535	0	0	0	0	0	0	0	0	0
215	Jul		31	104,383	54,117	15	2,460	4,136	165,110	0	0	0	0	0	0	0	0	0
216	Aug		31	104,154	54,084	18	2,516	4,728	165,499	0	0	0	0	0	0	0	0	0
217	Sep		30	102,941	55,186	16	2,246	4,779	165,167	0	0	0	0	0	0	0	0	0
218	Oct		31	128,102	59,470	15	1,662	4,846	194,095	0	0	0	0	0	0	0	0	0
219	Nov		30	204,342	71,224	13	1,214	4,878	281,670	0	0	0	0	0	0	0	0	0
220	Dec		31	322,832	87,584	9	822	5,101	416,349	0	0	0	0	0	0	0	0	0

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																	
167	MONTHLY FORECAST DATA																	
168							Nonresidential Core					Total	Noncore - G-30					
169	Average Year Sales (Mth)		Residential	G-10	G-AC	G-GE	G-NGV	Core	G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)					
221																		
222	2025	Jan	31	301,887	83,894	8	691	3,713	390,192	0	0	0	0	0	0	0	0	0
223		Feb	28	262,938	79,236	10	791	3,499	346,473	0	0	0	0	0	0	0	0	0
224		Mar	31	229,902	73,300	7	1,006	4,301	308,517	0	0	0	0	0	0	0	0	0
225		Apr	30	190,704	67,636	9	1,049	4,150	263,547	0	0	0	0	0	0	0	0	0
226		May	31	138,215	58,598	10	1,585	4,066	202,474	0	0	0	0	0	0	0	0	0
227		Jun	30	106,914	54,438	12	2,109	4,239	167,712	0	0	0	0	0	0	0	0	0
228		Jul	31	102,770	52,861	15	2,460	4,321	162,427	0	0	0	0	0	0	0	0	0
229		Aug	31	102,545	52,830	18	2,516	4,935	162,843	0	0	0	0	0	0	0	0	0
230		Sep	30	101,341	53,908	16	2,246	4,983	162,493	0	0	0	0	0	0	0	0	0
231		Oct	31	126,019	58,079	15	1,662	5,060	190,834	0	0	0	0	0	0	0	0	0
232		Nov	30	200,741	69,494	13	1,214	5,095	276,557	0	0	0	0	0	0	0	0	0
233		Dec	31	316,819	85,362	9	822	5,323	408,336	0	0	0	0	0	0	0	0	0
234																		
235	2026	Jan	31	296,551	81,989	8	691	3,866	383,105	0	0	0	0	0	0	0	0	0
236		Feb	28	258,303	77,451	10	791	3,649	340,205	0	0	0	0	0	0	0	0	0
237		Mar	31	225,938	71,678	7	1,006	4,489	303,119	0	0	0	0	0	0	0	0	0
238		Apr	30	187,543	66,170	9	1,049	4,332	259,104	0	0	0	0	0	0	0	0	0
239		May	31	136,023	57,356	10	1,585	4,247	199,221	0	0	0	0	0	0	0	0	0
240		Jun	30	105,316	53,308	12	2,109	4,433	165,177	0	0	0	0	0	0	0	0	0
241		Jul	31	101,259	51,767	15	2,460	4,521	160,022	0	0	0	0	0	0	0	0	0
242		Aug	31	101,039	51,737	18	2,516	5,157	160,466	0	0	0	0	0	0	0	0	0
243		Sep	30	99,843	52,794	16	2,246	5,203	160,101	0	0	0	0	0	0	0	0	0
244		Oct	31	124,066	56,866	15	1,662	5,290	187,899	0	0	0	0	0	0	0	0	0
245		Nov	30	197,359	67,979	13	1,214	5,330	271,894	0	0	0	0	0	0	0	0	0
246		Dec	31	311,163	83,405	9	822	5,563	400,963	0	0	0	0	0	0	0	0	0
247																		
248	2027	Jan	31	290,855	80,191	8	691	4,047	375,792	0	0	0	0	0	0	0	0	0
249		Feb	28	253,355	75,767	10	791	3,827	333,750	0	0	0	0	0	0	0	0	0
250		Mar	31	221,698	70,149	7	1,006	4,711	297,572	0	0	0	0	0	0	0	0	0
251		Apr	30	184,150	64,792	9	1,049	4,546	254,546	0	0	0	0	0	0	0	0	0
252		May	31	133,660	56,190	10	1,585	4,459	195,903	0	0	0	0	0	0	0	0	0
253		Jun	30	103,582	52,249	12	2,109	4,659	162,610	0	0	0	0	0	0	0	0	0
254		Jul	31	99,618	50,741	15	2,460	4,755	157,588	0	0	0	0	0	0	0	0	0
255		Aug	31	99,402	50,712	18	2,516	5,416	158,063	0	0	0	0	0	0	0	0	0
256		Sep	30	98,216	51,751	16	2,246	5,459	157,687	0	0	0	0	0	0	0	0	0
257		Oct	31	121,956	55,730	15	1,662	5,557	184,920	0	0	0	0	0	0	0	0	0
258		Nov	30	193,733	66,553	13	1,214	5,600	267,113	0	0	0	0	0	0	0	0	0
259		Dec	31	305,132	81,555	9	822	5,839	393,357	0	0	0	0	0	0	0	0	0
260																		
261	2028	Jan	31	284,831	78,359	8	691	4,241	368,129	0	0	0	0	0	0	0	0	0
262		Feb	29	248,120	74,050	10	791	4,017	326,988	0	0	0	0	0	0	0	0	0
263		Mar	31	217,205	68,586	7	1,006	4,949	291,754	0	0	0	0	0	0	0	0	0
264		Apr	30	180,543	63,380	9	1,049	4,776	249,756	0	0	0	0	0	0	0	0	0
265		May	31	131,139	54,992	10	1,585	4,686	192,412	0	0	0	0	0	0	0	0	0
266		Jun	30	101,723	51,158	12	2,109	4,901	159,904	0	0	0	0	0	0	0	0	0
267		Jul	31	97,856	49,685	15	2,460	5,005	155,021	0	0	0	0	0	0	0	0	0
268		Aug	31	97,646	49,656	18	2,516	5,693	155,528	0	0	0	0	0	0	0	0	0
269		Sep	30	96,470	50,676	16	2,246	5,733	155,141	0	0	0	0	0	0	0	0	0
270		Oct	31	119,700	54,561	15	1,662	5,843	181,781	0	0	0	0	0	0	0	0	0
271		Nov	30	189,884	65,093	13	1,214	5,890	262,094	0	0	0	0	0	0	0	0	0
272		Dec	31	298,758	79,672	9	822	6,135	385,396	0	0	0	0	0	0	0	0	0

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD																			
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																																			
167	MONTHLY FORECAST DATA																																			
168	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="5">Noncore - Electric Generation</th> <th colspan="3">Noncore - EOR</th> <th>Total</th> </tr> <tr> <th>EG-Dist. (>=3MMThms)</th> <th>EG-Trans. (>=3MMThms)</th> <th>EG (<3MMThms)</th> <th>EG (>=3MMThms)</th> <th>EG (Total)</th> <th>EOR (Dist.)</th> <th>EOR (Trans.)</th> <th>EOR (Total)</th> <th>Retail Noncore</th> </tr> </thead> </table>																		Noncore - Electric Generation					Noncore - EOR			Total	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore
	Noncore - Electric Generation					Noncore - EOR			Total																											
	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore																											
169	Average Year Sales (Mth)																																			
170	2021	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
171		Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
172		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
173		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
174		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
175		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
176		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
177		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
178		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
179		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
180		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
181		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
182																																				
183	2022	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
184		Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
185		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
186		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
187		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
188		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
189		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
190		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
191		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
192		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
193		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
194		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
195																																				
196	2023	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
197		Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
198		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
199		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
200		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
201		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
202		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
203		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
204		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
205		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
206		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
207		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
208																																				
209	2024	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
210		Feb	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
211		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
212		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
213		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
214		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
215		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
216		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
217		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
218		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
219		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
220		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																
167	MONTHLY FORECAST DATA																
168																	
169	Average Year Sales (Mth)																
221																	
222	2025	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
223		Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
224		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
225		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
226		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
227		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
228		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
229		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
232		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
233		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
234																	
235	2026	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
236		Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
237		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
238		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
239		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
240		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
241		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
242		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
243		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
244		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
245		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
246		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
247																	
248	2027	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
249		Feb	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
251		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
252		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
253		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
254		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
255		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
256		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
257		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
258		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
259		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
260																	
261	2028	Jan	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
262		Feb	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
263		Mar	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
264		Apr	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
265		May	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
266		Jun	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
267		Jul	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
268		Aug	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
269		Sep	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270		Oct	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
271		Nov	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
272		Dec	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																	
167	<u>MONTHLY FORECAST DATA</u>																	
168						Wholesale Noncore				Total	International NC		Total	Total System End-Use Dmd		System Total		
169	Average Year Sales (Mth)					Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale	Ecogas	Noncore						
170	2021	Jan	31		0	0	0	0	0	0	0	0	0	0	0	414,913		1,338
171		Feb	28		0	0	0	0	0	0	0	0	0	0	0	368,559		1,316
172		Mar	31		0	0	0	0	0	0	0	0	0	0	0	327,582		1,057
173		Apr	30		0	0	0	0	0	0	0	0	0	0	0	279,632		932
174		May	31		0	0	0	0	0	0	0	0	0	0	0	214,472		692
175		Jun	30		0	0	0	0	0	0	0	0	0	0	0	177,425		591
176		Jul	31		0	0	0	0	0	0	0	0	0	0	0	171,571		553
177		Aug	31		0	0	0	0	0	0	0	0	0	0	0	171,719		554
178		Sep	30		0	0	0	0	0	0	0	0	0	0	0	171,303		571
179		Oct	31		0	0	0	0	0	0	0	0	0	0	0	201,509		650
180		Nov	30		0	0	0	0	0	0	0	0	0	0	0	292,888		976
181		Dec	31		0	0	0	0	0	0	0	0	0	0	0	433,903		1,400
182																		
183	2022	Jan	31		0	0	0	0	0	0	0	0	0	0	0	410,660		1,325
184		Feb	28		0	0	0	0	0	0	0	0	0	0	0	364,686		1,302
185		Mar	31		0	0	0	0	0	0	0	0	0	0	0	324,251		1,046
186		Apr	30		0	0	0	0	0	0	0	0	0	0	0	276,579		922
187		May	31		0	0	0	0	0	0	0	0	0	0	0	212,158		684
188		Jun	30		0	0	0	0	0	0	0	0	0	0	0	175,624		585
189		Jul	31		0	0	0	0	0	0	0	0	0	0	0	169,731		548
190		Aug	31		0	0	0	0	0	0	0	0	0	0	0	170,077		549
191		Sep	30		0	0	0	0	0	0	0	0	0	0	0	169,790		566
192		Oct	31		0	0	0	0	0	0	0	0	0	0	0	199,653		644
193		Nov	30		0	0	0	0	0	0	0	0	0	0	0	290,245		967
194		Dec	31		0	0	0	0	0	0	0	0	0	0	0	429,650		1,386
195																		
196	2023	Jan	31		0	0	0	0	0	0	0	0	0	0	0	404,856		1,306
197		Feb	28		0	0	0	0	0	0	0	0	0	0	0	359,491		1,284
198		Mar	31		0	0	0	0	0	0	0	0	0	0	0	319,770		1,032
199		Apr	30		0	0	0	0	0	0	0	0	0	0	0	272,862		910
200		May	31		0	0	0	0	0	0	0	0	0	0	0	209,371		675
201		Jun	30		0	0	0	0	0	0	0	0	0	0	0	173,165		577
202		Jul	31		0	0	0	0	0	0	0	0	0	0	0	167,609		541
203		Aug	31		0	0	0	0	0	0	0	0	0	0	0	167,975		542
204		Sep	30		0	0	0	0	0	0	0	0	0	0	0	167,666		559
205		Oct	31		0	0	0	0	0	0	0	0	0	0	0	197,114		636
206		Nov	30		0	0	0	0	0	0	0	0	0	0	0	286,340		954
207		Dec	31		0	0	0	0	0	0	0	0	0	0	0	423,601		1,366
208																		
209	2024	Jan	31		0	0	0	0	0	0	0	0	0	0	0	397,889		1,284
210		Feb	29		0	0	0	0	0	0	0	0	0	0	0	353,291		1,218
211		Mar	31		0	0	0	0	0	0	0	0	0	0	0	314,408		1,014
212		Apr	30		0	0	0	0	0	0	0	0	0	0	0	268,416		895
213		May	31		0	0	0	0	0	0	0	0	0	0	0	206,064		665
214		Jun	30		0	0	0	0	0	0	0	0	0	0	0	170,535		568
215		Jul	31		0	0	0	0	0	0	0	0	0	0	0	165,110		533
216		Aug	31		0	0	0	0	0	0	0	0	0	0	0	165,499		534
217		Sep	30		0	0	0	0	0	0	0	0	0	0	0	165,167		551
218		Oct	31		0	0	0	0	0	0	0	0	0	0	0	194,095		626
219		Nov	30		0	0	0	0	0	0	0	0	0	0	0	281,670		939
220		Dec	31		0	0	0	0	0	0	0	0	0	0	0	416,349		1,343

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																	
167	MONTHLY FORECAST DATA																	
168						Wholesale Noncore				Total	International NC	Total	Total	System End-	System Total			
169						Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale	Ecogas	Noncore	Use Dmd	(Mdt/d)				
221	Average Year Sales (Mth)																	
222	2025	Jan	31			0	0	0	0	0	0	0	0	390,192	1,259			
223		Feb	28			0	0	0	0	0	0	0	0	346,473	1,237			
224		Mar	31			0	0	0	0	0	0	0	0	308,517	995			
225		Apr	30			0	0	0	0	0	0	0	0	263,547	878			
226		May	31			0	0	0	0	0	0	0	0	202,474	653			
227		Jun	30			0	0	0	0	0	0	0	0	167,712	559			
228		Jul	31			0	0	0	0	0	0	0	0	162,427	524			
229		Aug	31			0	0	0	0	0	0	0	0	162,843	525			
230		Sep	30			0	0	0	0	0	0	0	0	162,493	542			
231		Oct	31			0	0	0	0	0	0	0	0	190,834	616			
232		Nov	30			0	0	0	0	0	0	0	0	276,557	922			
233		Dec	31			0	0	0	0	0	0	0	0	408,336	1,317			
234																		
235	2026	Jan	31			0	0	0	0	0	0	0	0	383,105	1,236			
236		Feb	28			0	0	0	0	0	0	0	0	340,205	1,215			
237		Mar	31			0	0	0	0	0	0	0	0	303,119	978			
238		Apr	30			0	0	0	0	0	0	0	0	259,104	864			
239		May	31			0	0	0	0	0	0	0	0	199,221	643			
240		Jun	30			0	0	0	0	0	0	0	0	165,177	551			
241		Jul	31			0	0	0	0	0	0	0	0	160,022	516			
242		Aug	31			0	0	0	0	0	0	0	0	160,466	518			
243		Sep	30			0	0	0	0	0	0	0	0	160,101	534			
244		Oct	31			0	0	0	0	0	0	0	0	187,899	606			
245		Nov	30			0	0	0	0	0	0	0	0	271,894	906			
246		Dec	31			0	0	0	0	0	0	0	0	400,963	1,293			
247																		
248	2027	Jan	31			0	0	0	0	0	0	0	0	375,792	1,212			
249		Feb	28			0	0	0	0	0	0	0	0	333,750	1,192			
250		Mar	31			0	0	0	0	0	0	0	0	297,572	960			
251		Apr	30			0	0	0	0	0	0	0	0	254,546	848			
252		May	31			0	0	0	0	0	0	0	0	195,903	632			
253		Jun	30			0	0	0	0	0	0	0	0	162,610	542			
254		Jul	31			0	0	0	0	0	0	0	0	157,588	508			
255		Aug	31			0	0	0	0	0	0	0	0	158,063	510			
256		Sep	30			0	0	0	0	0	0	0	0	157,687	526			
257		Oct	31			0	0	0	0	0	0	0	0	184,920	597			
258		Nov	30			0	0	0	0	0	0	0	0	267,113	890			
259		Dec	31			0	0	0	0	0	0	0	0	393,357	1,269			
260																		
261	2028	Jan	31			0	0	0	0	0	0	0	0	368,129	1,188			
262		Feb	29			0	0	0	0	0	0	0	0	326,988	1,128			
263		Mar	31			0	0	0	0	0	0	0	0	291,754	941			
264		Apr	30			0	0	0	0	0	0	0	0	249,756	833			
265		May	31			0	0	0	0	0	0	0	0	192,412	621			
266		Jun	30			0	0	0	0	0	0	0	0	159,904	533			
267		Jul	31			0	0	0	0	0	0	0	0	155,021	500			
268		Aug	31			0	0	0	0	0	0	0	0	155,528	502			
269		Sep	30			0	0	0	0	0	0	0	0	155,141	517			
270		Oct	31			0	0	0	0	0	0	0	0	181,781	586			
271		Nov	30			0	0	0	0	0	0	0	0	262,094	874			
272		Dec	31			0	0	0	0	0	0	0	0	385,396	1,243			

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																	
1																		
275	MONTHLY FORECAST DATA																	
276							Nonresidential Core					Total	Noncore - G-30					
277						Residential	G-10	G-AC	G-GE	G-NGV	Core	G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)		
278	Cold Year Throughput (Mth)																	
278	2021	Jan	360,196	111,736	5	903	10,865	483,706	77,180	69,548	146,728	8,754	652					
279		Feb	313,113	104,810	8	1,047	10,478	429,457	66,889	51,820	118,709	7,340	692					
280		Mar	269,623	95,743	1	1,254	12,321	378,942	78,391	67,217	145,609	8,545	1,174					
281		Apr	217,713	86,721	5	1,611	12,304	318,354	74,524	61,038	135,563	8,146	1,193					
282		May	153,171	73,763	10	2,093	12,322	241,360	72,053	56,491	128,543	9,178	1,356					
283		Jun	113,955	67,401	11	2,774	12,798	196,939	71,070	59,998	131,068	9,684	2,511					
284		Jul	108,312	65,235	18	3,046	13,182	189,792	70,947	54,529	125,475	11,418	3,367					
285		Aug	108,026	65,186	19	2,911	13,893	190,034	75,793	61,966	137,759	10,491	2,513					
286		Sep	107,224	66,553	17	2,438	13,717	189,949	77,917	60,396	138,312	9,698	1,466					
287		Oct	137,520	72,484	13	1,853	13,798	225,670	76,714	66,236	142,950	8,524	1,580					
288		Nov	231,762	89,656	10	1,184	13,348	335,960	72,039	62,253	134,293	8,589	1,487					
289		Dec	380,600	114,501	10	864	13,497	509,471	77,385	69,042	146,427	8,883	1,066					
290																		
291	2022	Jan	357,424	109,636	8	755	11,034	478,857	78,598	66,314	144,913	9,731	477					
292		Feb	310,723	102,853	10	864	10,644	425,094	70,593	57,373	127,966	8,230	617					
293		Mar	267,696	93,970	7	1,100	12,520	375,294	75,836	62,679	138,515	9,156	452					
294		Apr	216,350	85,147	9	1,146	12,504	315,156	73,621	60,429	134,049	8,943	510					
295		May	152,365	72,447	10	1,732	12,523	239,077	73,546	60,277	133,824	9,641	573					
296		Jun	113,510	66,218	12	2,304	13,008	195,052	70,617	60,643	131,259	9,611	587					
297		Jul	107,933	64,095	15	2,687	13,399	188,129	74,146	61,052	135,198	10,102	885					
298		Aug	107,649	64,048	18	2,748	14,126	188,589	78,446	62,307	140,754	10,479	899					
299		Sep	106,833	65,385	16	2,454	13,947	188,635	78,190	61,593	139,784	9,745	836					
300		Oct	136,870	71,194	15	1,816	14,035	223,929	76,491	65,564	142,055	9,443	614					
301		Nov	230,224	88,016	13	1,326	13,583	333,162	72,628	62,777	135,405	9,589	477					
302		Dec	377,588	112,339	9	898	13,734	504,569	76,095	66,746	142,842	9,671	483					
303																		
304	2023	Jan	353,375	106,599	8	755	11,230	471,967	78,456	66,184	144,641	9,811	479					
305		Feb	307,219	100,023	10	864	10,837	418,952	70,193	56,701	126,894	8,304	617					
306		Mar	264,794	91,430	7	1,100	12,752	370,083	76,135	62,558	138,694	9,121	450					
307		Apr	214,172	82,885	9	1,146	12,735	310,948	74,135	60,588	134,723	9,025	439					
308		May	150,966	70,563	10	1,732	12,753	236,024	74,139	60,485	134,624	9,555	489					
309		Jun	112,603	64,531	12	2,304	13,251	192,702	71,396	61,026	132,422	9,501	544					
310		Jul	107,109	62,464	15	2,687	13,650	185,925	74,929	61,335	136,264	10,035	866					
311		Aug	106,829	62,418	18	2,748	14,395	186,408	79,234	62,599	141,833	10,396	905					
312		Sep	106,005	63,731	16	2,454	14,213	186,418	78,958	61,893	140,850	9,694	816					
313		Oct	135,677	69,380	15	1,816	14,307	221,195	75,987	64,827	140,813	9,353	615					
314		Nov	227,832	85,669	13	1,326	13,853	328,693	72,653	62,631	135,283	9,497	479					
315		Dec	373,238	109,195	9	898	14,007	497,348	76,269	66,747	143,016	9,626	485					
316																		
317	2024	Jan	347,965	103,759	8	755	11,458	463,945	78,004	65,933	143,937	9,706	479					
318		Feb	302,531	97,371	10	864	11,060	411,836	70,997	58,894	129,892	8,181	632					
319		Mar	260,853	89,034	7	1,100	13,022	364,015	75,980	62,626	138,606	8,999	450					
320		Apr	211,130	80,743	9	1,146	13,001	306,030	73,681	60,354	134,035	8,959	440					
321		May	148,937	68,766	10	1,732	13,019	232,464	73,666	60,224	133,890	9,580	488					
322		Jun	111,206	62,912	12	2,304	13,531	189,966	70,946	60,793	131,738	9,569	588					
323		Jul	105,813	60,899	15	2,687	13,940	183,354	74,687	61,364	136,051	10,110	865					
324		Aug	105,537	60,855	18	2,748	14,706	183,864	78,991	62,637	141,628	10,379	903					
325		Sep	104,710	62,138	16	2,454	14,519	183,836	78,563	61,753	140,317	9,668	798					
326		Oct	133,908	67,633	15	1,816	14,621	217,993	76,417	65,646	142,062	9,435	618					
327		Nov	224,530	83,446	13	1,326	14,164	323,479	72,749	63,052	135,801	9,430	480					
328		Dec	367,463	106,267	9	898	14,322	488,958	76,216	67,000	143,216	9,631	487					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																		
275	MONTHLY FORECAST DATA																		
276							Nonresidential Core						Noncore - G-30						
277						Residential	G-10	G-AC	G-GE	G-NGV	Core		G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)		
278	Cold Year Throughput (Mth)																		
329																			
330	2025	Jan	341,589	101,174	8	755	11,703	455,229	77,938	66,173	144,112	9,701	482						
331		Feb	297,000	94,959	10	864	11,300	404,133	70,137	57,143	127,280	8,196	620						
332		Mar	256,172	86,855	7	1,100	13,313	357,446	75,847	62,825	138,672	9,066	455						
333		Apr	207,469	78,799	9	1,146	13,288	300,711	73,463	60,487	133,949	8,981	506						
334		May	146,456	67,137	10	1,732	13,305	228,641	73,466	60,383	133,849	9,669	479						
335		Jun	109,456	61,446	12	2,304	13,834	187,052	70,755	60,926	131,682	9,617	578						
336		Jul	104,177	59,483	15	2,687	14,252	180,613	74,602	61,677	136,279	10,144	857						
337		Aug	103,907	59,439	18	2,748	15,041	181,153	78,871	62,906	141,778	10,497	899						
338		Sep	103,082	60,695	16	2,454	14,849	181,095	78,406	61,971	140,377	9,738	795						
339		Oct	131,726	66,049	15	1,816	14,961	214,566	76,065	65,626	141,692	9,541	620						
340		Nov	220,580	81,426	13	1,326	14,502	317,847	72,452	63,099	135,551	9,611	483						
341		Dec	360,674	103,601	9	898	14,663	479,845	76,002	67,155	143,157	9,679	489						
342																			
343	2026	Jan	335,565	98,896	8	755	11,960	447,184	77,695	66,286	143,981	9,750	483						
344		Feb	291,776	92,836	10	864	11,552	397,037	69,887	57,231	127,118	8,272	621						
345		Mar	251,755	84,942	7	1,100	13,618	351,422	75,508	62,819	138,327	9,203	459						
346		Apr	204,020	77,097	9	1,146	13,590	295,862	73,179	60,469	133,648	8,985	516						
347		May	144,124	65,718	10	1,732	13,606	225,190	73,145	60,322	133,467	9,676	514						
348		Jun	107,817	60,172	12	2,304	14,151	184,456	70,418	60,883	131,301	9,619	587						
349		Jul	102,645	58,253	15	2,687	14,581	178,181	74,377	61,716	136,093	10,205	858						
350		Aug	102,380	58,211	18	2,748	15,395	178,752	78,643	62,949	141,592	10,537	901						
351		Sep	101,556	59,443	16	2,454	15,197	178,665	78,186	62,021	140,206	9,798	796						
352		Oct	129,677	64,671	15	1,816	15,320	211,499	75,919	65,688	141,607	9,564	620						
353		Nov	216,856	79,658	13	1,326	14,858	312,710	72,240	63,078	135,318	9,584	482						
354		Dec	354,259	101,248	9	898	15,024	471,438	75,857	67,234	143,091	9,869	490						
355																			
356	2027	Jan	329,189	96,740	8	755	12,246	438,938	77,606	66,417	144,023	9,839	483						
357		Feb	286,244	90,827	10	864	11,832	389,777	69,792	57,334	127,126	8,271	622						
358		Mar	247,065	83,136	7	1,100	13,958	345,266	75,387	62,903	138,290	9,201	460						
359		Apr	200,340	75,494	9	1,146	13,924	290,913	73,101	60,555	133,656	9,134	517						
360		May	141,621	64,383	10	1,732	13,939	221,685	73,057	60,396	133,453	9,744	580						
361		Jun	106,041	58,978	12	2,304	14,503	181,838	70,339	60,962	131,301	9,763	585						
362		Jul	100,981	57,100	15	2,687	14,945	175,728	74,320	61,804	136,123	10,238	860						
363		Aug	100,722	57,059	18	2,748	15,786	176,333	78,585	63,046	141,630	10,582	902						
364		Sep	99,900	58,269	16	2,454	15,583	176,222	78,129	62,116	140,245	9,756	796						
365		Oct	127,470	63,380	15	1,816	15,716	208,398	75,857	65,797	141,654	9,593	621						
366		Nov	212,891	77,990	13	1,326	15,252	307,472	72,183	63,192	135,375	9,659	484						
367		Dec	347,476	99,018	9	898	15,423	462,824	75,791	67,353	143,144	9,743	491						
368																			
369	2028	Jan	322,492	94,549	8	755	12,546	430,350	77,499	66,558	144,058	9,840	484						
370		Feb	280,432	88,785	10	864	12,126	382,216	70,385	59,353	129,738	8,330	636						
371		Mar	242,126	81,295	7	1,100	14,315	338,844	75,259	63,009	138,268	9,290	460						
372		Apr	196,449	73,855	9	1,146	14,274	285,734	72,937	60,642	133,580	9,112	514						
373		May	138,960	63,014	10	1,732	14,289	218,005	72,897	60,489	133,386	9,928	502						
374		Jun	104,139	57,749	12	2,304	14,874	179,078	70,185	61,057	131,243	9,875	578						
375		Jul	99,195	55,914	15	2,687	15,327	173,138	74,137	61,899	136,036	10,404	861						
376		Aug	98,942	55,874	18	2,748	16,198	173,779	78,395	63,141	141,536	10,694	902						
377		Sep	98,125	57,061	16	2,454	15,988	173,644	77,939	62,205	140,144	10,018	797						
378		Oct	125,118	62,053	15	1,816	16,134	205,135	75,681	65,904	141,586	9,776	622						
379		Nov	208,705	76,287	13	1,326	15,667	301,999	72,008	63,299	135,307	9,809	485						
380		Dec	340,358	96,756	9	898	15,843	453,863	75,629	67,495	143,125	9,917	492						

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD																			
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																																			
275	MONTHLY FORECAST DATA																																			
276	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="5">Noncore - Electric Generation</th> <th colspan="3">Noncore - EOR</th> <th>Total</th> </tr> <tr> <th>EG-Dist. (>=3MMThms)</th> <th>EG-Trans. (>=3MMThms)</th> <th>EG (<3MMThms)</th> <th>EG (>=3MMThms)</th> <th>EG (Total)</th> <th>EOR (Dist.)</th> <th>EOR (Trans.)</th> <th>EOR (Total)</th> <th>Retail Noncore</th> </tr> </thead> </table>																		Noncore - Electric Generation					Noncore - EOR			Total	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore
	Noncore - Electric Generation					Noncore - EOR			Total																											
	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore																											
277	Cold Year Throughput (Mth)																																			
278	2021	Jan	15,930	134,666	9,406	150,596	160,001	8,012	3,035	11,046	317,775																									
279		Feb	14,487	94,983	8,032	109,470	117,502	7,236	2,741	9,977	246,188																									
280		Mar	17,138	143,932	9,720	161,070	170,790	8,012	3,035	11,046	327,445																									
281		Apr	16,251	153,890	9,340	170,140	179,480	7,753	2,937	10,690	325,733																									
282		May	17,315	152,067	10,535	169,383	179,917	8,012	3,035	11,046	319,507																									
283		Jun	18,056	202,803	12,195	220,859	233,055	7,753	2,937	10,690	374,813																									
284		Jul	18,130	295,909	14,785	314,039	328,824	8,012	3,035	11,046	465,346																									
285		Aug	18,298	261,626	13,003	279,923	292,927	8,012	3,035	11,046	441,733																									
286		Sep	17,458	199,586	11,164	217,044	228,208	7,753	2,937	10,690	377,210																									
287		Oct	16,198	179,037	10,104	195,235	205,339	8,012	3,035	11,046	359,336																									
288		Nov	16,641	168,035	10,076	184,676	194,752	7,753	2,937	10,690	339,735																									
289		Dec	17,262	150,538	9,949	167,800	177,749	8,012	3,035	11,046	335,222																									
290																																				
291	2022	Jan	17,842	161,033	10,208	178,874	189,082	9,599	3,784	13,383	347,378																									
292		Feb	15,986	146,234	8,847	162,220	171,067	8,670	3,418	12,088	311,121																									
293		Mar	17,646	162,097	9,608	179,743	189,351	9,599	3,784	13,383	341,250																									
294		Apr	17,154	155,185	9,453	172,339	181,792	9,289	3,662	12,952	328,793																									
295		May	18,741	174,902	10,213	193,643	203,857	9,599	3,784	13,383	351,063																									
296		Jun	18,224	185,771	10,198	203,995	214,193	9,289	3,662	12,952	358,404																									
297		Jul	19,937	210,464	10,987	230,401	241,388	9,599	3,784	13,383	389,969																									
298		Aug	20,268	225,241	11,378	245,508	256,886	9,599	3,784	13,383	411,023																									
299		Sep	19,157	208,852	10,581	228,009	238,590	9,289	3,662	12,952	391,325																									
300		Oct	17,965	175,580	10,057	193,545	203,602	9,599	3,784	13,383	359,040																									
301		Nov	17,722	158,304	10,066	176,025	186,091	9,289	3,662	12,952	334,447																									
302		Dec	18,107	165,901	10,153	184,008	194,162	9,599	3,784	13,383	350,386																									
303																																				
304	2023	Jan	17,894	165,063	10,290	182,957	193,247	9,599	3,784	13,383	351,271																									
305		Feb	15,862	145,197	8,921	161,060	169,981	8,670	3,418	12,088	308,963																									
306		Mar	17,729	163,131	9,571	180,860	190,431	9,599	3,784	13,383	342,508																									
307		Apr	17,254	154,779	9,464	172,033	181,497	9,289	3,662	12,952	329,172																									
308		May	18,755	174,929	10,045	193,684	203,729	9,599	3,784	13,383	351,737																									
309		Jun	18,003	185,541	10,045	203,544	213,589	9,289	3,662	12,952	358,962																									
310		Jul	19,694	208,936	10,901	228,630	239,531	9,599	3,784	13,383	389,178																									
311		Aug	20,041	217,660	11,301	237,701	249,002	9,599	3,784	13,383	404,219																									
312		Sep	19,029	203,974	10,510	223,003	233,512	9,289	3,662	12,952	387,314																									
313		Oct	17,836	173,708	9,967	191,544	201,511	9,599	3,784	13,383	355,707																									
314		Nov	17,472	157,971	9,976	175,443	185,419	9,289	3,662	12,952	333,653																									
315		Dec	18,055	165,858	10,111	183,913	194,025	9,599	3,784	13,383	350,424																									
316																																				
317	2024	Jan	18,101	148,539	10,184	166,640	176,824	9,599	3,784	13,383	334,144																									
318		Feb	16,379	138,206	8,814	154,586	163,399	8,670	3,418	12,088	305,379																									
319		Mar	17,769	146,423	9,449	164,192	173,641	9,599	3,784	13,383	325,631																									
320		Apr	17,272	141,240	9,399	158,512	167,911	9,289	3,662	12,952	314,897																									
321		May	18,770	154,331	10,068	173,101	183,169	9,599	3,784	13,383	330,443																									
322		Jun	18,130	162,497	10,157	180,626	190,783	9,289	3,662	12,952	335,473																									
323		Jul	19,749	189,919	10,975	209,668	220,643	9,599	3,784	13,383	370,077																									
324		Aug	19,949	196,909	11,282	216,858	228,140	9,599	3,784	13,383	383,151																									
325		Sep	18,922	180,442	10,465	199,364	209,829	9,289	3,662	12,952	363,097																									
326		Oct	18,132	160,066	10,053	178,197	188,250	9,599	3,784	13,383	343,696																									
327		Nov	17,897	143,350	9,910	161,247	171,158	9,289	3,662	12,952	319,910																									
328		Dec	18,265	152,035	10,117	170,300	180,417	9,599	3,784	13,383	337,016																									

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD																			
1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																																			
275	MONTHLY FORECAST DATA																																			
276	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="5">Noncore - Electric Generation</th> <th colspan="3">Noncore - EOR</th> <th>Total</th> </tr> <tr> <th>EG-Dist. (>=3MMThms)</th> <th>EG-Trans. (>=3MMThms)</th> <th>EG (<3MMThms)</th> <th>EG (>=3MMThms)</th> <th>EG (Total)</th> <th>EOR (Dist.)</th> <th>EOR (Trans.)</th> <th>EOR (Total)</th> <th>Retail Noncore</th> </tr> </thead> </table>																		Noncore - Electric Generation					Noncore - EOR			Total	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore
	Noncore - Electric Generation					Noncore - EOR			Total																											
	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	EOR (Dist.)	EOR (Trans.)	EOR (Total)	Retail Noncore																											
277	Cold Year Throughput (Mth)																																			
329																																				
330	2025	Jan	18,179	140,365	10,183	158,544	168,727	9,599	3,784	13,383	326,222																									
331		Feb	16,174	126,452	8,816	142,627	151,443	8,670	3,418	12,088	290,810																									
332		Mar	17,879	138,440	9,521	156,319	165,839	9,599	3,784	13,383	317,895																									
333		Apr	17,366	133,534	9,487	150,901	160,388	9,289	3,662	12,952	307,289																									
334		May	18,874	146,500	10,148	165,374	175,523	9,599	3,784	13,383	322,755																									
335		Jun	18,227	152,960	10,195	171,187	181,382	9,289	3,662	12,952	326,016																									
336		Jul	19,797	176,015	11,001	195,812	206,813	9,599	3,784	13,383	356,475																									
337		Aug	20,065	182,690	11,396	202,754	214,150	9,599	3,784	13,383	369,311																									
338		Sep	19,033	171,141	10,534	190,175	200,708	9,289	3,662	12,952	354,036																									
339		Oct	18,219	151,214	10,162	169,432	179,594	9,599	3,784	13,383	334,669																									
340		Nov	18,066	136,169	10,094	154,234	164,328	9,289	3,662	12,952	312,831																									
341		Dec	18,353	145,011	10,168	163,364	173,532	9,599	3,784	13,383	330,073																									
342																																				
343	2026	Jan	18,209	138,129	10,233	156,339	166,571	9,311	3,671	12,982	323,534																									
344		Feb	16,157	122,034	8,893	138,191	147,084	8,410	3,316	11,725	285,928																									
345		Mar	17,901	135,928	9,662	153,829	163,490	9,311	3,671	12,982	314,799																									
346		Apr	17,395	128,557	9,501	145,953	155,454	9,011	3,552	12,563	301,665																									
347		May	18,901	139,408	10,189	158,309	168,498	9,311	3,671	12,982	314,948																									
348		Jun	18,258	148,320	10,205	166,578	176,783	9,011	3,552	12,563	320,647																									
349		Jul	19,871	171,526	11,063	191,397	202,460	9,311	3,671	12,982	351,534																									
350		Aug	20,150	178,720	11,439	198,870	210,309	9,311	3,671	12,982	364,883																									
351		Sep	19,196	169,250	10,595	188,446	199,040	9,011	3,552	12,563	351,809																									
352		Oct	18,252	147,649	10,185	165,901	176,085	9,311	3,671	12,982	330,674																									
353		Nov	18,126	134,171	10,065	152,297	162,363	9,011	3,552	12,563	310,244																									
354		Dec	18,374	140,636	10,359	159,010	169,369	9,311	3,671	12,982	325,443																									
355																																				
356	2027	Jan	18,212	130,452	10,322	148,664	158,986	9,032	3,561	12,592	315,601																									
357		Feb	16,260	117,673	8,893	133,932	142,825	8,158	3,216	11,374	281,325																									
358		Mar	17,922	128,105	9,660	146,027	155,688	9,032	3,561	12,592	306,570																									
359		Apr	17,416	122,021	9,651	139,437	149,088	8,740	3,446	12,186	294,930																									
360		May	18,992	132,440	10,324	151,432	161,755	9,032	3,561	12,592	307,801																									
361		Jun	18,288	139,883	10,348	158,171	168,519	8,740	3,446	12,186	312,006																									
362		Jul	20,071	166,361	11,098	186,431	197,529	9,032	3,561	12,592	346,244																									
363		Aug	20,379	184,949	11,484	205,328	216,811	9,032	3,561	12,592	371,034																									
364		Sep	19,673	173,596	10,552	193,269	203,821	8,740	3,446	12,186	356,252																									
365		Oct	18,274	143,932	10,214	162,206	172,421	9,032	3,561	12,592	326,666																									
366		Nov	18,208	128,576	10,144	146,783	156,927	8,740	3,446	12,186	304,488																									
367		Dec	18,399	137,893	10,234	156,292	166,526	9,032	3,561	12,592	322,262																									
368																																				
369	2028	Jan	18,150	123,844	10,324	141,995	152,319	8,761	3,454	12,215	308,591																									
370		Feb	16,126	117,017	8,966	133,144	142,110	7,913	3,120	11,032	282,880																									
371		Mar	17,963	123,158	9,750	141,121	150,871	8,761	3,454	12,215	301,354																									
372		Apr	17,492	119,017	9,626	136,509	146,135	8,478	3,342	11,820	291,535																									
373		May	18,967	129,045	10,430	148,011	158,441	8,761	3,454	12,215	304,042																									
374		Jun	18,222	133,719	10,452	151,941	162,393	8,478	3,342	11,820	305,456																									
375		Jul	19,738	154,614	11,265	174,352	185,617	8,761	3,454	12,215	333,867																									
376		Aug	20,096	164,301	11,596	184,397	195,992	8,761	3,454	12,215	349,743																									
377		Sep	19,183	152,678	10,814	171,861	182,675	8,478	3,342	11,820	334,640																									
378		Oct	18,120	135,629	10,398	153,750	164,148	8,761	3,454	12,215	317,948																									
379		Nov	18,051	121,487	10,295	139,537	149,832	8,478	3,342	11,820	296,959																									
380		Dec	18,191	129,849	10,409	148,040	158,449	8,761	3,454	12,215	313,788																									

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)														
1															
275	MONTHLY FORECAST DATA														
276					Wholesale Noncore				Total		International NC		Total		
277					Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale		Ecogas		Noncore		
278	Cold Year Throughput (Mth)														
278	2021	Jan	9,193	104,071	11,576	7,538	132,378	9,551	459,705						
279		Feb	9,697	85,204	10,477	5,954	111,333	8,077	365,598						
280		Mar	7,632	89,936	9,855	5,865	113,288	10,078	450,811						
281		Apr	7,497	78,258	6,499	7,202	99,456	9,229	434,418						
282		May	7,311	76,541	4,107	7,761	95,720	9,502	424,729						
283		Jun	6,150	73,052	3,712	7,787	90,701	12,265	477,778						
284		Jul	6,066	86,212	2,789	8,161	103,227	12,238	580,811						
285		Aug	5,535	73,882	2,882	7,903	90,201	12,752	544,686						
286		Sep	5,753	70,155	2,910	7,522	86,339	12,092	475,641						
287		Oct	6,187	81,885	3,601	8,154	99,827	9,608	468,771						
288		Nov	8,139	96,337	4,888	7,262	116,626	9,355	465,715						
289		Dec	11,569	117,052	7,840	7,114	143,574	9,574	488,371						
290															
291	2022	Jan	10,228	108,038	12,700	8,040	139,006	9,730	496,114						
292		Feb	10,732	97,389	10,121	6,665	124,907	8,652	444,680						
293		Mar	8,276	92,847	8,527	7,149	116,799	10,799	468,847						
294		Apr	7,980	82,832	5,838	7,691	104,341	10,577	443,711						
295		May	7,580	72,611	4,423	7,702	92,317	10,872	454,253						
296		Jun	6,295	66,703	3,075	8,047	84,119	12,967	455,490						
297		Jul	6,190	70,119	2,579	8,578	87,466	13,272	490,707						
298		Aug	5,647	72,177	2,802	8,726	89,351	13,414	513,789						
299		Sep	5,876	70,848	2,946	8,165	87,835	12,786	491,946						
300		Oct	6,380	72,276	4,490	8,574	91,720	10,995	461,756						
301		Nov	8,771	84,744	7,968	7,506	108,988	10,727	454,162						
302		Dec	12,923	111,317	12,294	8,101	144,635	10,965	505,987						
303															
304	2023	Jan	10,275	104,715	12,824	7,940	135,755	10,444	497,470						
305		Feb	10,809	94,293	10,219	6,920	122,241	9,370	440,574						
306		Mar	8,323	89,549	8,609	6,809	113,290	11,517	467,316						
307		Apr	8,018	79,265	5,894	7,518	100,696	10,611	440,479						
308		May	7,618	69,635	4,466	7,828	89,547	10,906	452,190						
309		Jun	6,323	63,513	3,104	8,254	81,193	13,001	453,157						
310		Jul	6,228	66,179	2,603	8,484	83,495	13,306	485,979						
311		Aug	5,676	67,360	2,828	8,738	84,602	13,449	502,270						
312		Sep	5,895	66,741	2,974	7,997	83,606	12,820	483,741						
313		Oct	6,419	68,783	4,533	8,691	88,425	11,029	455,162						
314		Nov	8,809	81,643	8,045	8,174	106,671	10,761	451,085						
315		Dec	12,970	107,034	12,416	7,911	140,331	11,000	501,756						
316															
317	2024	Jan	10,313	99,561	12,951	7,940	130,765	10,480	475,390						
318		Feb	10,856	91,227	10,446	7,249	119,779	9,407	434,565						
319		Mar	8,361	84,598	8,693	7,399	109,051	11,555	446,237						
320		Apr	8,066	74,702	5,951	7,090	95,809	10,650	421,356						
321		May	7,657	65,112	4,509	7,686	84,963	10,945	426,351						
322		Jun	6,361	59,330	3,134	8,206	77,031	13,041	425,544						
323		Jul	6,257	62,438	2,628	9,129	80,452	13,346	463,875						
324		Aug	5,704	62,584	2,855	8,537	79,681	13,489	476,321						
325		Sep	5,923	61,873	3,002	8,173	78,971	12,861	454,930						
326		Oct	6,438	64,797	4,576	9,006	84,817	11,070	439,583						
327		Nov	8,847	77,439	8,123	7,747	102,156	10,803	432,869						
328		Dec	13,028	102,476	12,538	8,235	136,277	11,042	484,335						

	A	B	C	D	E	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)														
1															
275	<u>MONTHLY FORECAST DATA</u>														
276					Wholesale Noncore				Total		International NC		Total		
277	Cold Year Throughput (Mth)														
278		Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale	Ecogas	Noncore							
329	2025	Jan	10,361	97,628	13,078	8,295	129,362	10,522	466,106						
330		Feb	10,904	87,048	10,420	7,077	115,449	9,449	415,709						
331		Mar	8,399	81,633	8,777	7,319	106,129	11,597	435,622						
332		Apr	8,104	71,438	6,008	7,519	93,069	10,692	411,050						
333		May	7,704	62,518	4,552	7,672	82,446	10,988	416,189						
334		Jun	6,409	58,473	3,163	8,399	76,444	13,084	415,544						
335		Jul	6,285	60,331	2,653	8,774	78,043	13,389	447,907						
336		Aug	5,742	59,801	2,882	8,744	77,169	13,532	460,012						
337		Sep	5,961	58,070	3,030	8,693	75,755	12,904	442,696						
338		Oct	6,476	61,695	4,620	8,682	81,472	11,114	427,255						
339		Nov	8,885	74,741	8,201	7,923	99,750	10,846	423,428						
340		Dec	13,085	99,931	12,660	8,159	133,834	11,086	474,993						
341	2026	Jan	10,409	95,611	13,205	8,709	127,933	10,567	462,034						
342		Feb	10,932	86,461	10,520	7,052	114,967	9,495	410,389						
343		Mar	8,447	81,590	8,861	7,332	106,230	11,644	432,673						
344		Apr	8,142	71,416	6,065	7,576	93,199	10,739	405,604						
345		May	7,742	61,172	4,596	7,931	81,441	11,035	407,424						
346		Jun	6,438	57,035	3,193	8,468	75,134	13,131	408,912						
347		Jul	6,323	59,741	2,677	9,113	77,855	13,437	442,826						
348		Aug	5,771	61,680	2,909	8,525	78,885	13,580	457,347						
349		Sep	5,990	59,591	3,059	8,548	77,188	12,952	441,950						
350		Oct	6,504	61,703	4,663	8,719	81,590	11,162	423,425						
351		Nov	8,923	73,466	8,279	8,066	98,734	10,895	419,873						
352		Dec	13,142	97,955	12,782	8,052	131,931	11,136	468,510						
353	2027	Jan	10,447	94,884	13,332	8,068	126,731	10,608	452,940						
354		Feb	10,999	84,595	10,621	7,289	113,505	9,537	404,367						
355		Mar	8,485	80,881	8,945	7,426	105,737	11,686	423,993						
356		Apr	8,199	69,109	6,122	7,777	91,207	10,782	396,919						
357		May	7,780	60,578	4,639	7,931	80,928	11,079	399,808						
358		Jun	6,476	57,842	3,223	8,581	76,122	13,175	401,302						
359		Jul	6,352	60,156	2,702	8,934	78,144	13,480	437,869						
360		Aug	5,800	58,313	2,936	8,995	76,043	13,624	460,701						
361		Sep	6,028	60,366	3,087	8,569	78,050	12,996	447,299						
362		Oct	6,542	61,912	4,706	8,694	81,854	11,207	419,727						
363		Nov	8,961	73,187	8,357	8,521	99,027	10,940	414,454						
364		Dec	13,208	97,156	12,904	8,680	131,948	11,182	465,392						
365	2028	Jan	10,494	93,103	13,459	8,414	125,471	10,650	444,711						
366		Feb	11,047	83,631	10,853	7,392	112,923	9,579	405,383						
367		Mar	8,533	77,867	9,029	7,576	103,005	11,729	416,087						
368		Apr	8,228	69,041	6,179	7,663	91,111	10,825	393,471						
369		May	7,828	59,590	4,683	7,849	79,950	11,122	395,114						
370		Jun	6,514	55,907	3,253	8,111	73,785	13,218	392,459						
371		Jul	6,390	57,372	2,727	8,995	75,485	13,524	422,876						
372		Aug	5,828	59,015	2,962	8,568	76,374	13,668	439,784						
373		Sep	6,047	57,371	3,115	8,442	74,975	13,041	422,656						
374		Oct	6,571	60,012	4,750	9,184	80,517	11,251	409,716						
375		Nov	9,009	71,805	8,435	8,307	97,556	10,985	405,501						
376		Dec	13,266	95,450	13,026	8,277	130,019	11,228	455,035						

	A	B	C	D	E	AO	AP	AQ	AR	AS	AT	AU	
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)												
1													
275	MONTHLY FORECAST DATA					Total System End- Use Dmd	System Total (MdtH/d)		Co-Use-Fuel	"Un-Acnt'd- For" (UAF)	Total System Throughput		
276													
277	Cold Year Throughput (Mth)												
278	2021	Jan				943,411	3,043		2,626	7,504	953,541		
279		Feb				795,055	2,839		2,213	6,324	803,592		
280		Mar				829,752	2,677		2,310	6,600	838,662		
281		Apr				752,772	2,509		2,096	5,987	760,855		
282		May				666,089	2,149		1,854	5,298	673,241		
283		Jun				674,718	2,249		1,878	5,367	681,963		
284		Jul				770,603	2,486		2,145	6,129	778,878		
285		Aug				734,721	2,370		2,045	5,844	742,610		
286		Sep				665,589	2,219		1,853	5,294	672,736		
287		Oct				694,441	2,240		1,933	5,523	701,897		
288		Nov				801,675	2,672		2,232	6,376	810,283		
289		Dec				997,841	3,219		2,778	7,937	1,008,556		
290													
291	2022	Jan				974,971	3,145		2,714	7,755	985,439		
292		Feb				869,774	3,106		2,421	6,918	879,114		
293		Mar				844,141	2,723		2,350	6,714	853,205		
294		Apr				758,867	2,530		2,113	6,036	767,016		
295		May				693,330	2,237		1,930	5,515	700,774		
296		Jun				650,542	2,168		1,811	5,174	657,528		
297		Jul				678,837	2,190		1,890	5,399	686,126		
298		Aug				702,378	2,266		1,955	5,587	709,919		
299		Sep				680,581	2,269		1,895	5,413	687,889		
300		Oct				685,684	2,212		1,909	5,454	693,047		
301		Nov				787,324	2,624		2,192	6,262	795,778		
302		Dec				1,010,555	3,260		2,813	8,038	1,021,406		
303													
304	2023	Jan				969,436	3,127		2,699	7,711	979,846		
305		Feb				859,526	3,070		2,393	6,836	868,756		
306		Mar				837,399	2,701		2,331	6,660	846,391		
307		Apr				751,427	2,505		2,092	5,977	759,496		
308		May				688,214	2,220		1,916	5,474	695,604		
309		Jun				645,858	2,153		1,798	5,137	652,793		
310		Jul				671,904	2,167		1,871	5,344	679,119		
311		Aug				688,678	2,222		1,917	5,478	696,072		
312		Sep				670,158	2,234		1,866	5,330	677,354		
313		Oct				676,357	2,182		1,883	5,380	683,619		
314		Nov				779,778	2,599		2,171	6,202	788,151		
315		Dec				999,104	3,223		2,781	7,947	1,009,832		
316													
317	2024	Jan				939,335	3,030		2,615	7,471	949,421		
318		Feb				846,401	2,919		2,356	6,732	855,489		
319		Mar				810,252	2,614		2,256	6,445	818,953		
320		Apr				727,385	2,425		2,025	5,785	735,196		
321		May				658,815	2,125		1,834	5,240	665,890		
322		Jun				615,510	2,052		1,714	4,896	622,119		
323		Jul				647,228	2,088		1,802	5,148	654,178		
324		Aug				660,184	2,130		1,838	5,251	667,273		
325		Sep				638,766	2,129		1,778	5,081	645,625		
326		Oct				657,576	2,121		1,831	5,230	664,637		
327		Nov				756,348	2,521		2,106	6,016	764,470		
328		Dec				973,293	3,140		2,710	7,741	983,744		

	A	B	C	D	E	AO	AP	AQ	AR	AS	AT	AU	
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)												
1													
275	MONTHLY FORECAST DATA					Total System End- Use Dmd	System Total (Mdth/d)	Co-Use-Fuel	"Un-Acnt'd- For" (UAF)	Total System Throughput			
276													
277	Cold Year Throughput (Mth)												
329													
330	2025	Jan	921,335	2,972	2,565	7,328	931,228						
331		Feb	819,841	2,928	2,282	6,521	828,645						
332		Mar	793,068	2,558	2,208	6,308	801,583						
333		Apr	711,761	2,373	1,982	5,661	719,403						
334		May	644,830	2,080	1,795	5,129	651,754						
335		Jun	602,595	2,009	1,678	4,793	609,066						
336		Jul	628,520	2,027	1,750	4,999	635,269						
337		Aug	641,165	2,068	1,785	5,100	648,050						
338		Sep	623,790	2,079	1,737	4,961	630,488						
339		Oct	641,822	2,070	1,787	5,105	648,713						
340		Nov	741,274	2,471	2,064	5,896	749,234						
341		Dec	954,838	3,080	2,658	7,595	965,091						
342													
343	2026	Jan	909,219	2,933	2,531	7,232	918,982						
344		Feb	807,427	2,884	2,248	6,422	816,097						
345		Mar	784,094	2,529	2,183	6,236	792,514						
346		Apr	701,466	2,338	1,953	5,579	708,998						
347		May	632,614	2,041	1,761	5,032	639,407						
348		Jun	593,368	1,978	1,652	4,719	599,740						
349		Jul	621,007	2,003	1,729	4,939	627,675						
350		Aug	636,099	2,052	1,771	5,059	642,929						
351		Sep	620,615	2,069	1,728	4,936	627,279						
352		Oct	634,924	2,048	1,768	5,050	641,742						
353		Nov	732,583	2,442	2,039	5,827	740,450						
354		Dec	939,948	3,032	2,617	7,476	950,041						
355													
356	2027	Jan	891,878	2,877	2,483	7,094	901,454						
357		Feb	794,144	2,836	2,211	6,316	802,671						
358		Mar	769,259	2,481	2,142	6,118	777,519						
359		Apr	687,832	2,293	1,915	5,471	695,218						
360		May	621,492	2,005	1,730	4,943	628,166						
361		Jun	583,140	1,944	1,623	4,638	589,402						
362		Jul	613,597	1,979	1,708	4,880	620,185						
363		Aug	637,034	2,055	1,773	5,067	643,874						
364		Sep	623,520	2,078	1,736	4,959	630,215						
365		Oct	628,125	2,026	1,749	4,996	634,869						
366		Nov	721,926	2,406	2,010	5,742	729,678						
367		Dec	928,216	2,994	2,584	7,383	938,183						
368													
369	2028	Jan	875,061	2,823	2,436	6,960	884,457						
370		Feb	787,599	2,716	2,193	6,264	796,056						
371		Mar	754,931	2,435	2,102	6,005	763,037						
372		Apr	679,205	2,264	1,891	5,402	686,498						
373		May	613,119	1,978	1,707	4,877	619,702						
374		Jun	571,537	1,905	1,591	4,546	577,674						
375		Jul	596,014	1,923	1,659	4,741	602,414						
376		Aug	613,563	1,979	1,708	4,880	620,152						
377		Sep	596,300	1,988	1,660	4,743	602,703						
378		Oct	614,851	1,983	1,712	4,890	621,454						
379		Nov	707,499	2,358	1,970	5,627	715,096						
380		Dec	908,898	2,932	2,530	7,229	918,658						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																		
1																			
383																			
		Nonresidential Core					Total	Noncore - G-30			Noncc								
384	Peak Day Throughput (Mth/Day)	Residential	G-10	G-AC	G-GE	G-NGV	Core	G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)						
385	2021	23,717	5,669	0	28	435	29,849	3,163	2,810	5,973	280	40	671						
386	2022	23,458	5,680	0	29	443	29,611	3,106	2,715	5,821	319	19	618						
387	2023	23,159	5,542	0	29	452	29,182	3,113	2,715	5,828	335	29	621						
388	2024	22,815	5,412	0	29	462	28,719	3,111	2,725	5,837	320	24	623						
389	2025	22,441	5,291	0	29	473	28,234	3,103	2,732	5,835	323	25	626						
390	2026	22,081	5,184	0	29	485	27,779	3,097	2,735	5,833	325	17	627						
391	2027	21,711	5,081	0	29	498	27,319	3,095	2,740	5,835	328	25	628						
392	2028	21,333	4,978	0	29	511	26,851	3,089	2,746	5,835	323	18	630						

	A	B	C	D	E	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																		
1																			
383																			
	re - Electric Generation					Noncore - EOR			Total		Wholesale Noncore								
384	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)		EOR (Dist.)	EOR (Trans.)	EOR (Total)		Retail Noncore	Long Beach	SDG&E	Southwest Gas						
385	2021	5,455	319	6,127	6,446	258	98	356		12,775	652	6,763	547						
386	2022	5,889	338	6,507	6,846	310	122	432		13,099	652	5,651	566						
387	2023	5,773	364	6,394	6,758	310	122	432		13,018	654	5,510	572						
388	2024	5,453	343	6,076	6,420	310	122	432		12,688	657	5,384	577						
389	2025	5,150	348	5,777	6,124	310	122	432		12,390	660	5,408	583						
390	2026	4,963	342	5,590	5,932	300	118	419		12,183	664	5,439	589						
391	2027	5,206	353	5,834	6,187	291	115	406		12,429	667	5,422	595						
392	2028	4,890	341	5,520	5,861	283	111	394		12,090	670	5,146	600						

	A	B	C	D	E	AH	AI	AJ	AK	AL	AM	AN	AO	AP
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)													
1														
383														
						<u> </u>	Total		International NC		Total		Total	
384	Peak Day Throughput (Mth/Day)					Vernon	Wholesale		Ecogas		Noncore		System End- Use Dmd	
385	2021					275	8,237		338		21,349		51,199	
386	2022					278	7,147		387		20,632		50,243	
387	2023					279	7,015		376		20,409		49,591	
388	2024					286	6,905		377		19,970		48,689	
389	2025					290	6,942		378		19,710		47,945	
390	2026					297	6,989		380		19,552		47,331	
391	2027					299	6,983		381		19,793		47,112	
392	2028					212	6,629		383		19,102		45,953	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)															
1																
395	<u>MONTHLY FORECAST DATA</u>															
396							Nonresidential Core					Total	Noncore - G-30			
397						Residential	G-10	G-AC	G-GE	G-NGV	Core	G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)		
397	Forecast Number of Customers															
398	2021	Jan	5,654,010	202,552	4	657	340			5,857,563	526	30	556			
399		Feb	5,656,872	202,636	4	656	340			5,860,508	526	30	556			
400		Mar	5,659,684	202,720	4	651	340			5,863,399	526	30	556			
401		Apr	5,661,555	202,550	4	657	340			5,865,106	526	30	556			
402		May	5,663,924	202,502	5	656	340			5,867,427	526	30	556			
403		Jun	5,665,690	202,419	5	652	340			5,869,106	526	30	556			
404		Jul	5,669,612	202,464	4	652	340			5,873,071	526	30	556			
405		Aug	5,672,333	202,224	4	651	340			5,875,551	526	30	556			
406		Sep	5,674,939	202,013	5	652	340			5,877,948	526	30	556			
407		Oct	5,680,619	202,058	4	651	340			5,883,671	526	30	556			
408		Nov	5,681,549	202,134	5	649	340			5,884,676	526	30	556			
409		Dec	5,684,765	202,445	5	639	340			5,888,193	526	30	556			
410																
411	2022	Jan	5,694,757	203,967	5	672	348			5,899,749	526	30	556			
412		Feb	5,697,801	203,757	5	671	348			5,902,582	526	30	556			
413		Mar	5,700,845	203,552	5	666	348			5,905,416	526	30	556			
414		Apr	5,704,716	203,237	5	672	348			5,908,978	526	30	556			
415		May	5,706,933	203,124	5	671	348			5,911,081	526	30	556			
416		Jun	5,709,150	203,014	5	667	348			5,913,184	526	30	556			
417		Jul	5,709,842	202,807	4	667	348			5,913,668	526	30	556			
418		Aug	5,713,584	202,788	4	666	348			5,917,390	526	30	556			
419		Sep	5,717,326	202,767	4	667	348			5,921,112	526	30	556			
420		Oct	5,719,766	202,314	4	666	348			5,923,098	526	30	556			
421		Nov	5,724,810	202,729	4	664	348			5,928,555	526	30	556			
422		Dec	5,729,854	203,152	4	654	348			5,934,012	526	30	556			
423																
424	2023	Jan	5,736,797	204,189	5	672	356			5,942,019	526	30	556			
425		Feb	5,739,942	203,952	5	671	356			5,944,926	526	30	556			
426		Mar	5,743,087	203,720	5	666	356			5,947,834	526	30	556			
427		Apr	5,747,194	203,388	5	672	356			5,951,615	526	30	556			
428		May	5,749,377	203,240	5	671	356			5,953,649	526	30	556			
429		Jun	5,751,560	203,095	5	667	356			5,955,683	526	30	556			
430		Jul	5,752,258	202,847	4	667	356			5,956,132	526	30	556			
431		Aug	5,755,926	202,800	4	666	356			5,959,752	526	30	556			
432		Sep	5,759,594	202,751	4	667	356			5,963,372	526	30	556			
433		Oct	5,762,003	202,236	4	666	356			5,965,265	526	30	556			
434		Nov	5,766,931	202,658	4	664	356			5,970,613	526	30	556			
435		Dec	5,771,860	203,086	4	654	356			5,975,960	526	30	556			
436																
437	2024	Jan	5,778,742	204,144	5	672	364			5,983,927	526	30	556			
438		Feb	5,781,717	203,903	5	671	364			5,986,660	526	30	556			
439		Mar	5,784,691	203,668	5	666	364			5,989,394	526	30	556			
440		Apr	5,788,606	203,332	5	672	364			5,992,979	526	30	556			
441		May	5,790,641	203,180	5	671	364			5,994,861	526	30	556			
442		Jun	5,792,676	203,033	5	667	364			5,996,745	526	30	556			
443		Jul	5,793,179	202,775	4	667	364			5,996,989	526	30	556			
444		Aug	5,796,746	202,732	4	666	364			6,000,512	526	30	556			
445		Sep	5,800,313	202,686	4	667	364			6,004,034	526	30	556			
446		Oct	5,802,578	202,184	4	666	364			6,005,796	526	30	556			
447		Nov	5,807,448	202,601	4	664	364			6,011,081	526	30	556			
448		Dec	5,812,318	203,026	4	654	364			6,016,366	526	30	556			

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)															
1																
395	<u>MONTHLY FORECAST DATA</u>															
396							Nonresidential Core						Noncore - G-30			
397						Residential	G-10	G-AC	G-GE	G-NGV	Total		G-30 (Dist.)	G-30 (Trans.)	G-30 (Total)	
449	Forecast Number of Customers															
450	2025	Jan	5,819,150	204,067	5	672	372				6,024,266	526	30		556	
451		Feb	5,822,059	203,830	5	671	372				6,026,937	526	30		556	
452		Mar	5,824,967	203,597	5	666	372				6,029,607	526	30		556	
453		Apr	5,828,826	203,266	5	672	372				6,033,141	526	30		556	
454		May	5,830,784	203,117	5	671	372				6,034,949	526	30		556	
455		Jun	5,832,742	202,971	5	667	372				6,036,757	526	30		556	
456		Jul	5,833,158	202,716	4	667	372				6,036,917	526	30		556	
457		Aug	5,836,658	202,674	4	666	372				6,040,374	526	30		556	
458		Sep	5,840,159	202,630	4	667	372				6,043,832	526	30		556	
459		Oct	5,842,329	202,129	4	666	372				6,045,500	526	30		556	
460		Nov	5,847,160	202,548	4	664	372				6,050,748	526	30		556	
461		Dec	5,851,991	202,975	4	654	372				6,055,996	526	30		556	
462																
463	2026	Jan	5,858,771	204,017	5	672	380				6,063,845	526	30		556	
464		Feb	5,861,652	203,781	5	671	380				6,066,489	526	30		556	
465		Mar	5,864,534	203,550	5	666	380				6,069,135	526	30		556	
466		Apr	5,868,346	203,222	5	672	380				6,072,625	526	30		556	
467		May	5,870,296	203,074	5	671	380				6,074,426	526	30		556	
468		Jun	5,872,245	202,929	5	667	380				6,076,226	526	30		556	
469		Jul	5,872,644	202,674	4	667	380				6,076,369	526	30		556	
470		Aug	5,876,144	202,632	4	666	380				6,079,826	526	30		556	
471		Sep	5,879,645	202,586	4	667	380				6,083,282	526	30		556	
472		Oct	5,881,827	202,085	4	666	380				6,084,962	526	30		556	
473		Nov	5,886,645	202,502	4	664	380				6,090,195	526	30		556	
474		Dec	5,891,463	202,927	4	654	380				6,095,428	526	30		556	
475																
476	2027	Jan	5,898,277	203,968	5	672	388				6,103,310	526	30		556	
477		Feb	5,901,100	203,732	5	671	388				6,105,896	526	30		556	
478		Mar	5,903,924	203,500	5	666	388				6,108,483	526	30		556	
479		Apr	5,907,722	203,172	5	672	388				6,111,959	526	30		556	
480		May	5,909,570	203,021	5	671	388				6,113,655	526	30		556	
481		Jun	5,911,419	202,873	5	667	388				6,115,352	526	30		556	
482		Jul	5,911,724	202,616	4	667	388				6,115,399	526	30		556	
483		Aug	5,915,115	202,571	4	666	388				6,118,744	526	30		556	
484		Sep	5,918,506	202,523	4	667	388				6,122,088	526	30		556	
485		Oct	5,920,577	202,018	4	666	388				6,123,653	526	30		556	
486		Nov	5,925,288	202,435	4	664	388				6,128,779	526	30		556	
487		Dec	5,929,998	202,859	4	654	388				6,133,903	526	30		556	
488																
489	2028	Jan	5,936,715	203,899	5	672	395				6,141,687	526	30		556	
490		Feb	5,939,418	203,663	5	671	395				6,144,153	526	30		556	
491		Mar	5,942,121	203,430	5	666	395				6,146,618	526	30		556	
492		Apr	5,945,800	203,102	5	672	395				6,149,975	526	30		556	
493		May	5,947,527	202,950	5	671	395				6,151,549	526	30		556	
494		Jun	5,949,255	202,802	5	667	395				6,153,125	526	30		556	
495		Jul	5,949,419	202,545	4	667	395				6,153,031	526	30		556	
496		Aug	5,952,710	202,499	4	666	395				6,156,274	526	30		556	
497		Sep	5,956,000	202,451	4	667	395				6,159,517	526	30		556	
498		Oct	5,957,943	201,944	4	666	395				6,160,952	526	30		556	
499		Nov	5,962,581	202,360	4	664	395				6,166,004	526	30		556	
500		Dec	5,967,218	202,784	4	654	395				6,171,054	526	30		556	

	A	B	C	D	E	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC																							
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	Noncore - Electric Generation							Noncore - EOR			Total																														
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397	Forecast Number of Customers																																								
398	2021	Jan	310	13	25	39	323	64	387	18	14	32	975																												
399		Feb	310	13	25	39	323	64	387	18	14	32	975																												
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409		Dec	310	13	25	39	323	64	387	18	14	32	975																												
410																																									
411	2022	Jan	310	13	25	39	323	64	387	18	14	32	975																												
412		Feb	310	13	25	39	323	64	387	18	14	32	975																												
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396							Wholesale Noncore				Total	International NC	Total	Total			
397							Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale	Ecogas	Noncore	System			
397	Forecast Number of Customers																
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1	2024 CAP: SoCalGas Consolidated Gas Demand Forecast Summary (Mtherms)																
395	MONTHLY FORECAST DATA																
396					Wholesale Noncore				Total	International NC			Total	Total			
397	Forecast Number of Customers				Long Beach	SDG&E	Southwest Gas	Vernon	Wholesale	Ecogas	Noncore	System					
449																	
450	2025	Jan	1	1	1	1	4	1	975	6,025,241							
451		Feb	1	1	1	1	4	1	975	6,027,912							
452		Mar	1	1	1	1	4	1	975	6,030,582							
453		Apr	1	1	1	1	4	1	975	6,034,116							
454		May	1	1	1	1	4	1	975	6,035,924							
455		Jun	1	1	1	1	4	1	975	6,037,732							
456		Jul	1	1	1	1	4	1	975	6,037,892							
457		Aug	1	1	1	1	4	1	975	6,041,349							
458		Sep	1	1	1	1	4	1	975	6,044,807							
459		Oct	1	1	1	1	4	1	975	6,046,475							
460		Nov	1	1	1	1	4	1	975	6,051,723							
461		Dec	1	1	1	1	4	1	975	6,056,971							
462																	
463	2026	Jan	1	1	1	1	4	1	975	6,064,820							
464		Feb	1	1	1	1	4	1	975	6,067,464							
465		Mar	1	1	1	1	4	1	975	6,070,110							
466		Apr	1	1	1	1	4	1	975	6,073,600							
467		May	1	1	1	1	4	1	975	6,075,401							
468		Jun	1	1	1	1	4	1	975	6,077,201							
469		Jul	1	1	1	1	4	1	975	6,077,344							
470		Aug	1	1	1	1	4	1	975	6,080,801							
471		Sep	1	1	1	1	4	1	975	6,084,257							
472		Oct	1	1	1	1	4	1	975	6,085,937							
473		Nov	1	1	1	1	4	1	975	6,091,170							
474		Dec	1	1	1	1	4	1	975	6,096,403							
475																	
476	2027	Jan	1	1	1	1	4	1	975	6,104,285							
477		Feb	1	1	1	1	4	1	975	6,106,871							
478		Mar	1	1	1	1	4	1	975	6,109,458							
479		Apr	1	1	1	1	4	1	975	6,112,934							
480		May	1	1	1	1	4	1	975	6,114,630							
481		Jun	1	1	1	1	4	1	975	6,116,327							
482		Jul	1	1	1	1	4	1	975	6,116,374							
483		Aug	1	1	1	1	4	1	975	6,119,719							
484		Sep	1	1	1	1	4	1	975	6,123,063							
485		Oct	1	1	1	1	4	1	975	6,124,628							
486		Nov	1	1	1	1	4	1	975	6,129,754							
487		Dec	1	1	1	1	4	1	975	6,134,878							
488																	
489	2028	Jan	1	1	1	1	4	1	975	6,142,662							
490		Feb	1	1	1	1	4	1	975	6,145,128							
491		Mar	1	1	1	1	4	1	975	6,147,593							
492		Apr	1	1	1	1	4	1	975	6,150,950							
493		May	1	1	1	1	4	1	975	6,152,524							
494		Jun	1	1	1	1	4	1	975	6,154,100							
495		Jul	1	1	1	1	4	1	975	6,154,006							
496		Aug	1	1	1	1	4	1	975	6,157,249							
497		Sep	1	1	1	1	4	1	975	6,160,492							
498		Oct	1	1	1	1	4	1	975	6,161,927							
499		Nov	1	1	1	1	4	1	975	6,166,979							
500		Dec	1	1	1	1	4	1	975	6,172,029							

SDG&E Consolidated Gas Demand

Marginal Demand Measures (MDM)

Marginal Demand Measures (MDMs) are used for rate design and cost allocation calculations. Figure 1, below, shows the relationships among the various MDMs that are provided in the accompanying tables.

Figure 1

Diagram Depicting the Relationships
Among “Direct” and “Cumulative” MDMs

Direct Basis	D_T	T (Trans.)		
	D_H	H (High Press.)	H (High Press.)	
	D_M	M (Medium Press.)	M (Medium Press.)	M (Medium Press.)
		C_T = D_T + D_H + D_M	C_H = D_H + D_M	C_M = D_M
Cumulative Basis				

For example, the MDM data in the tables below for Noncore C&I, Average Year throughput gas demand have *direct* values for various segments of pressure service:

$$D_T = 13,965 \text{ MTh}, D_H = 2,747 \text{ MTh}, \text{ and } D_M = 32,591 \text{ MTh}.$$

The corresponding *cumulative* totals are:

$$C_T = 49,303 \text{ MTh}, C_H = 35,338 \text{ MTh}, \text{ and } C_M = 32,591 \text{ MTh},$$

using the formulas indicated in the Figure 1, above.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
2														
3						Btu Factor:	1.0298							
4									Co-Use-Fuel	UAF				
5									0.388%	2.223%				
6									0.399%	2.283%				
7														
8														
9	Forecast Summary		MDM				Nonresidential Core			Total				Noncore - C&I
10						Residential	GN-3	G-NGV	Core			C&I (Dist.)	C&I (Trans.)	C&I
11	<< CAP Period >> January 2024 - December 2027													
12	DIRECT (%'s Load or Cust/Mtrs Sum to 100%)													
13	Transmission		%-Load:			0.00%	0.00%	0.00%						
14			Average Year Throughput (MTh)			0	0	0	0			0	13,965	13,965
15			Cold Year Throughput (1-in-35) (MTh)			0	0	0	0			0	13,965	13,965
16			Cold Year Peak Month (December) (MTh)			0	0	0	0			0	1,167	1,167
17			Peak Day (see note a/ below) (MTh)			-	-	-	0			0	38	38
18			%-Cust/Mtrs:			0.0000%	0.0000%	0.0000%						
19			Number of Customers			-	-	-	0			0	5	5
20	High Pressure		%-Load:			0.01%	1.86%	43.47%						
21			Average Year Throughput (MTh)			18	3,333	10,075	13,426			2,747	0	2,747
22			Cold Year Throughput (1-in-35) (MTh)			19	3,442	10,075	13,536			2,747	0	2,747
23			Cold Year Peak Month (December) (MTh)			3	391	865	1,259			230	0	230
24			Peak Day (see note a/ below) (MTh)			0	19	28	47			7	0	7
25			%-Cust/Mtrs:			0.0002%	0.0156%	13.7931%						
26			Number of Customers			2	5	5	12			5	0	5
27	Medium Pressure		%-Load:			99.99%	98.14%	56.53%						
28			Average Year Throughput (MTh)			270,586	175,580	13,104	459,270			32,591	0	32,591
29			Cold Year Throughput (1-in-35) (MTh)			298,699	181,329	13,104	493,131			32,591	0	32,591
30			Cold Year Peak Month (December) (MTh)			43,868	20,592	1,125	65,584			2,724	0	2,724
31			Peak Day (see note a/ below) (MTh)			3,040	996	36	4,072			88	0	88
32			%-Cust/Mtrs:			99.9998%	99.9844%	86.2069%						
33			Number of Customers			909,357	30,483	31	939,871			48	0	48
34	CUMULATIVE (Calc'd from DIRECT %'s)													
35	Transmission		%-Load:			100.0000%	100.0000%	100.0000%						
36			Average Year Throughput (MTh)			270,604	178,913	23,179	472,696			35,337	13,965	49,302
37			Cold Year Throughput (1-in-35) (MTh)			298,718	184,771	23,179	506,668			35,337	13,965	49,302
38			Cold Year Peak Month (December) (MTh)			43,870	20,983	1,990	66,843			2,953	1,167	4,120
39			Peak Day (see note a/ below) (MTh)			3,040	1,015	64	4,119			95	38	133
40			%-Cust/Mtrs:			100.0000%	100.0000%	100.0000%						
41			Number of Customers			909,359	30,488	36	939,883			53	5	58
42	High Pressure		%-Load:			100.0000%	100.0000%	100.0000%						
43			Average Year Throughput (MTh)			270,604	178,913	23,179	472,696			35,337	0	35,337
44			Cold Year Throughput (1-in-35) (MTh)			298,718	184,771	23,179	506,668			35,337	0	35,337
45			Cold Year Peak Month (December) (MTh)			43,870	20,983	1,990	66,843			2,953	0	2,953
46			Peak Day (see note a/ below) (MTh)			3,040	1,015	64	4,119			95	0	95
47			%-Cust/Mtrs:			100.0000%	100.0000%	100.0000%						
48			Number of Customers			909,359	30,488	36	939,883			53	0	53
49	Medium Pressure		%-Load:			99.9935%	98.1369%	56.5341%						
50			Average Year Throughput (MTh)			270,586	175,580	13,104	459,270			32,591	0	32,591
51			Cold Year Throughput (1-in-35) (MTh)			298,699	181,329	13,104	493,131			32,591	0	32,591
52			Cold Year Peak Month (December) (MTh)			43,868	20,592	1,125	65,584			2,724	0	2,724
53			Peak Day (see note a/ below) (MTh)			3,040	996	36	4,072			88	0	88
54			%-Cust/Mtrs:			99.9998%	99.9844%	86.2069%						
55			Number of Customers			909,357	30,483	31	939,871			48	0	48
56			Note: a/ Core HDD-sensitive markets (Res & GN3) at 1-in-35 peak-day design temperature; Power-Plant facilities' peak daily load in month of DECEMBER for BASE HYDRO water year; all other market segments at average daily load in DECEMBER month.											

	A	B	C	D	E	O	P	Q	R	S	T	U	V	W
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
2														
3														
4														
5														
6	MDM #Yrs Av (3- or 4-yr)													
7	4													
8														
9	Forecast Summary					MDM				Noncore - Electric Generation			Noncore	System-Wide
10						EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total
11	<< CAP Period >> January 2024 - December 2027													
12	DIRECT (%'s Load or Cust/Mtrs Sum to 100%)													
13	Transmission % -Load:													
14		Average Year Throughput (MTh)	0	0	0	225,945	0	225,945	225,945	225,945	225,945	225,945	239,910	239,910
15		Cold Year Throughput (1-in-35) (MTh)	0	0	0	225,945	0	225,945	225,945	225,945	225,945	225,945	239,910	239,910
16		Cold Year Peak Month (December) (MTh)	0	0	0	19,867	0	19,867	19,867	19,867	19,867	19,867	21,035	21,035
17		Peak Day (see note a/ below) (MTh)	0	0	0	828	0	828	828	828	828	828	866	866
18	% -Cust/Mtrs:													
19		Number of Customers	0	3	0	10	3	10	13	13	13	13	18	18
20	High Pressure % -Load:													
21		Average Year Throughput (MTh)	9,085	0	35,885	0	9,085	35,885	44,970	47,717	61,142	47,717	61,142	61,142
22		Cold Year Throughput (1-in-35) (MTh)	9,085	0	35,885	0	9,085	35,885	44,970	47,717	61,142	47,717	61,142	61,142
23		Cold Year Peak Month (December) (MTh)	755	0	2,981	0	755	2,981	3,736	3,965	5,224	3,965	5,224	5,224
24		Peak Day (see note a/ below) (MTh)	24	0	96	0	24	96	121	128	175	128	175	175
25	% -Cust/Mtrs:													
26		Number of Customers	7	0	4	0	7	4	11	16	28	16	28	28
27	Medium Pressure % -Load:													
28		Average Year Throughput (MTh)	22,343	0	4,342	0	22,343	4,342	26,685	59,276	518,546	59,276	518,546	518,546
29		Cold Year Throughput (1-in-35) (MTh)	22,343	0	4,342	0	22,343	4,342	26,685	59,276	552,407	59,276	552,407	552,407
30		Cold Year Peak Month (December) (MTh)	1,856	0	361	0	1,856	361	2,217	4,941	70,525	4,941	70,525	70,525
31		Peak Day (see note a/ below) (MTh)	60	0	12	0	60	12	72	159	4,232	159	4,232	4,232
32	% -Cust/Mtrs:													
33		Number of Customers	73	0	1	0	73	1	74	122	939,993	122	939,993	939,993
34	CUMULATIVE (Calc'd from DIRECT %'s)													
35	Transmission % -Load:													
36		Average Year Throughput (MTh)	31,429	0	40,227	225,945	31,429	266,171	297,600	346,902	819,598	346,902	819,598	819,598
37		Cold Year Throughput (1-in-35) (MTh)	31,429	0	40,227	225,945	31,429	266,171	297,600	346,902	853,570	346,902	853,570	853,570
38		Cold Year Peak Month (December) (MTh)	2,611	0	3,342	19,867	2,611	23,209	25,820	29,941	96,784	29,941	96,784	96,784
39		Peak Day (see note a/ below) (MTh)	84	0	108	828	84	936	1,020	1,153	5,272	1,153	5,272	5,272
40	% -Cust/Mtrs:													
41		Number of Customers	80	3	5	10	83	15	98	156	940,039	156	940,039	940,039
42	High Pressure % -Load:													
43		Average Year Throughput (MTh)	31,429	0	40,227	0	31,429	40,227	71,656	106,993	579,689	106,993	579,689	579,689
44		Cold Year Throughput (1-in-35) (MTh)	31,429	0	40,227	0	31,429	40,227	71,656	106,993	613,661	106,993	613,661	613,661
45		Cold Year Peak Month (December) (MTh)	2,611	0	3,342	0	2,611	3,342	5,953	8,906	75,749	8,906	75,749	75,749
46		Peak Day (see note a/ below) (MTh)	84	0	108	0	84	108	192	287	4,407	287	4,407	4,407
47	% -Cust/Mtrs:													
48		Number of Customers	80	0	5	0	80	5	85	138	940,021	138	940,021	940,021
49	Medium Pressure % -Load:													
50		Average Year Throughput (MTh)	22,343	0	4,342	0	22,343	4,342	26,685	59,276	518,546	59,276	518,546	518,546
51		Cold Year Throughput (1-in-35) (MTh)	22,343	0	4,342	0	22,343	4,342	26,685	59,276	552,407	59,276	552,407	552,407
52		Cold Year Peak Month (December) (MTh)	1,856	0	361	0	1,856	361	2,217	4,941	70,525	4,941	70,525	70,525
53		Peak Day (see note a/ below) (MTh)	60	0	12	0	60	12	72	159	4,232	159	4,232	4,232
54	% -Cust/Mtrs:													
55		Number of Customers	73	0	1	0	73	1	74	122	939,993	122	939,993	939,993
56	Note: a/													

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)																		
59	ANNUAL FORECAST DATA																		
60		Nonresidential Core				Total	Noncore - C&I			Noncore - Electric Generation									
61		Residential	GN-3	G-NGV	Core	C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)						
62	Average Year Throughput (Mth)	287,606	173,099	23,170	483,874	36,139	14,282	50,421	31,693	7,093	37,466	360,964	38,787						
63	2021	283,648	178,289	23,552	485,489	37,243	14,718	51,961	31,017	0	39,690	333,503	31,017						
64	2022	280,198	179,928	23,552	483,678	35,524	14,039	49,562	31,621	0	40,473	294,291	31,621						
65	2023	276,297	179,786	23,552	479,635	35,314	13,956	49,269	31,530	0	40,356	247,664	31,530						
66	2024	272,183	179,344	23,054	474,581	35,289	13,946	49,234	31,409	0	40,201	221,085	31,409						
67	2025	268,752	178,649	23,054	470,455	35,355	13,972	49,327	31,383	0	40,168	219,476	31,383						
68	2026	265,184	177,874	23,054	466,112	35,391	13,986	49,378	31,393	0	40,181	215,552	31,393						
69	2027	261,528	177,043	23,054	461,625	35,342	13,967	49,309	31,264	0	40,016	202,109	31,264						
70	2028																		
71		Nonresidential Core				Total	Noncore - C&I			Noncore - Electric Generation									
72		Residential	GN-3	G-NGV	Core	C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)						
73	Average Year Sales (Mth)																		
74	2021	365	286,185	143,065	9,959	439,209	0	0	0	0	0	0	0						
75	2022	365	282,247	147,354	9,325	438,927	0	0	0	0	0	0	0						
76	2023	365	278,814	148,709	9,325	436,848	0	0	0	0	0	0	0						
77	2024	366	274,932	148,592	9,325	432,849	0	0	0	0	0	0	0						
78	2025	365	270,839	148,226	8,827	427,892	0	0	0	0	0	0	0						
79	2026	365	267,425	147,652	8,827	423,904	0	0	0	0	0	0	0						
80	2027	365	263,874	147,011	8,827	419,712	0	0	0	0	0	0	0						
81	2028	366	260,236	146,325	8,827	415,388	0	0	0	0	0	0	0						
82																			
83																			
84		Nonresidential Core				Total	Noncore - C&I			Noncore - Electric Generation									
85		Residential	GN-3	G-NGV	Core	C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)						
86	Cold Year Throughput (Mth)																		
87	2021		315,815	178,994	23,170	517,979	36,139	14,282	50,421	31,693	7,093	37,466	360,964	38,787					
88	2022		311,836	184,176	23,552	519,564	37,243	14,718	51,961	31,017	0	39,690	333,503	31,017					
89	2023		308,365	185,806	23,552	517,723	35,524	14,039	49,562	31,621	0	40,473	294,291	31,621					
90	2024		304,443	185,656	23,552	513,651	35,314	13,956	49,269	31,530	0	40,356	247,664	31,530					
91	2025		300,308	185,206	23,054	508,567	35,289	13,946	49,234	31,409	0	40,201	221,085	31,409					
92	2026		296,856	184,503	23,054	504,412	35,355	13,972	49,327	31,383	0	40,168	219,476	31,383					
93	2027		293,266	183,719	23,054	500,040	35,391	13,986	49,378	31,393	0	40,181	215,552	31,393					
94	2028		289,589	182,881	23,054	495,524	35,342	13,967	49,309	31,264	0	40,016	202,109	31,264					
95																			
96																			
97																			
98		Nonresidential Core				Total	Noncore - C&I			Noncore - Electric Generation									
99	Specified Peak Day Throughput (Mth/Day)	Residential	GN-3	G-NGV	Core	C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)						
100	2021	3,106	993	64.4	4,164	112	44	156	90	115	112	1,950	205						
101	2022	3,091	1,012	65.3	4,168	97	38	135	85	0	108	1,007	85						
102	2023	3,077	1,018	65.3	4,161	95	38	133	85	0	108	879	85						
103	2024	3,062	1,018	65.3	4,145	95	38	133	85	0	108	773	85						
104	2025	3,046	1,017	63.8	4,126	95	38	133	84	0	108	816	84						
105	2026	3,032	1,014	63.8	4,111	95	38	133	84	0	108	861	84						
106	2027	3,019	1,012	63.8	4,094	95	38	133	84	0	108	862	84						
107	2028	3,004	1,009	63.8	4,077	95	38	133	84	0	107	611	84						
108																			
109																			
110		Nonresidential Core				Total	Noncore - C&I			Noncore - Electric Generation									
111		Residential	GN-3	G-NGV	Core	C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)						
112	Forecast Number of Customers																		
113	2021	873,304	30,163	37	903,504	53	5	58	80	3	5	10	83						
114	2022	880,418	30,319	37	910,774	53	5	58	80	3	5	10	83						
115	2023	888,738	30,378	37	919,153	53	5	58	80	3	5	10	83						
116	2024	896,990	30,424	37	927,451	53	5	58	80	3	5	10	83						
117	2025	905,216	30,467	36	935,719	53	5	58	80	3	5	10	83						
118	2026	913,509	30,510	36	944,055	53	5	58	80	3	5	10	83						
119	2027	921,721	30,549	36	952,306	53	5	58	80	3	5	10	83						
120	2028	929,784	30,585	36	960,405	53	5	58	80	3	5	10	83						

	A	B	C	D	E	T	U	V	W	X	Y	Z	AA	AB	AC
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)														
59	ANNUAL FORECAST DATA														
60								Noncore	System-Wide						
61															
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1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)																	
59	MONTHLY FORECAST DATA																	
60						Nonresidential Core			Total	Noncore - C&I			Noncore - Electric Gene					
62			Residential	GN-3	G-NGV	Core				C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)		
62	2021	Jan	39,303	18,960	2,002	60,266				3,053	1,149	4,202	2,693	228	2,975	23,986		
63		Feb	34,364	17,725	1,918	54,007				2,843	1,181	4,024	2,345	134	2,966	13,367		
64		Mar	31,541	16,673	1,301	49,516				3,769	1,399	5,168	2,663	434	3,245	21,653		
65		Apr	25,869	15,156	1,716	42,741				3,498	1,303	4,801	2,692	388	2,233	20,296		
66		May	19,148	12,920	1,897	33,964				3,252	1,047	4,299	2,819	323	2,999	28,708		
67		Jun	14,546	11,787	1,909	28,242				3,081	1,320	4,401	2,561	826	2,983	31,867		
68		Jul	13,800	11,359	2,222	27,381				2,516	993	3,509	3,083	1,368	3,528	45,075		
69		Aug	13,729	11,260	2,030	27,019				2,673	1,124	3,797	2,646	692	3,467	34,330		
70		Sep	13,393	11,282	2,120	26,795				2,608	617	3,225	2,817	648	3,441	31,373		
71		Oct	16,118	11,994	2,024	30,136				2,952	1,068	4,020	2,538	376	2,809	39,206		
72		Nov	25,466	14,885	2,035	42,386				2,813	1,339	4,151	2,341	675	3,252	37,961		
73		Dec	40,330	19,096	1,995	61,421				3,081	1,742	4,824	2,496	1,001	3,568	33,143		
74																		
75	2022	Jan	38,707	19,519	2,030	60,256				3,260	1,288	4,548	2,460	0	3,149	27,806		
76		Feb	33,842	18,255	1,945	54,043				3,257	1,287	4,544	2,529	0	3,237	24,362		
77		Mar	31,080	17,166	1,335	49,581				3,196	1,263	4,459	2,554	0	3,270	25,653		
78		Apr	25,513	15,607	1,749	42,869				3,173	1,254	4,427	2,603	0	3,332	24,377		
79		May	18,904	13,310	1,923	34,136				3,121	1,233	4,355	2,595	0	3,321	24,879		
80		Jun	14,381	12,141	1,936	28,458				3,108	1,228	4,337	2,638	0	3,377	25,888		
81		Jul	13,648	11,703	2,270	27,622				3,054	1,207	4,261	2,604	0	3,333	30,453		
82		Aug	13,578	11,604	2,071	27,253				3,027	1,196	4,223	2,596	0	3,322	32,896		
83		Sep	13,245	11,627	2,149	27,022				3,001	1,186	4,187	2,582	0	3,305	31,879		
84		Oct	15,926	12,358	2,055	30,339				3,024	1,195	4,219	2,608	0	3,338	29,223		
85		Nov	25,115	15,334	2,066	42,515				3,022	1,194	4,216	2,618	0	3,351	26,778		
86		Dec	39,710	19,664	2,023	61,397				3,000	1,186	4,186	2,629	0	3,355	29,309		
87																		
88	2023	Jan	38,180	19,686	2,030	59,897				2,926	1,156	4,082	2,577	0	3,298	25,135		
89		Feb	33,382	18,417	1,945	53,743				2,971	1,174	4,145	2,620	0	3,353	21,843		
90		Mar	30,674	17,317	1,335	49,325				2,968	1,173	4,141	2,627	0	3,362	22,854		
91		Apr	25,203	15,748	1,749	42,700				2,978	1,177	4,155	2,658	0	3,402	21,223		
92		May	18,694	13,436	1,923	34,052				2,966	1,172	4,138	2,644	0	3,385	22,169		
93		Jun	14,241	12,257	1,936	28,433				2,984	1,179	4,164	2,686	0	3,438	22,869		
94		Jul	13,521	11,818	2,270	27,608				2,964	1,172	4,136	2,667	0	3,413	26,610		
95		Aug	13,452	11,719	2,071	27,241				2,951	1,166	4,117	2,644	0	3,384	28,212		
96		Sep	13,121	11,743	2,149	27,013				2,935	1,160	4,095	2,617	0	3,349	27,900		
97		Oct	15,762	12,478	2,055	30,295				2,960	1,170	4,129	2,624	0	3,359	25,919		
98		Nov	24,808	15,476	2,066	42,350				2,967	1,173	4,140	2,629	0	3,365	23,976		
99		Dec	39,161	19,835	2,023	61,019				2,953	1,167	4,120	2,628	0	3,363	25,580		
100																		
101	2024	Jan	37,592	19,657	2,030	59,279				2,880	1,138	4,018	2,572	0	3,292	20,814		
102		Feb	32,867	18,393	1,945	53,206				2,933	1,159	4,093	2,614	0	3,345	19,467		
103		Mar	30,218	17,296	1,335	48,849				2,937	1,161	4,098	2,619	0	3,352	18,574		
104		Apr	24,852	15,734	1,749	42,335				2,953	1,167	4,120	2,649	0	3,390	17,203		
105		May	18,454	13,429	1,923	33,806				2,946	1,164	4,110	2,635	0	3,373	18,060		
106		Jun	14,078	12,253	1,936	28,267				2,969	1,173	4,142	2,677	0	3,427	19,005		
107		Jul	13,372	11,816	2,270	27,458				2,953	1,167	4,120	2,659	0	3,403	23,151		
108		Aug	13,304	11,719	2,071	27,094				2,942	1,163	4,105	2,636	0	3,374	23,739		
109		Sep	12,977	11,743	2,149	26,869				2,929	1,157	4,086	2,609	0	3,340	23,330		
110		Oct	15,573	12,475	2,055	30,103				2,956	1,168	4,125	2,618	0	3,351	22,249		
111		Nov	24,462	15,464	2,066	41,992				2,964	1,172	4,136	2,622	0	3,356	20,263		
112		Dec	38,549	19,806	2,023	60,378				2,951	1,166	4,117	2,620	0	3,353	21,810		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)																	
59	MONTHLY FORECAST DATA																	
60							Nonresidential Core		Total		Noncore - C&I			Noncore - Electric Gene				
113						Residential	GN-3	G-NGV	Core		C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	
114	2025	Jan	36,975	19,595	1,983	58,553				2,879	1,138	4,017	2,568	0	3,286	19,675		
115		Feb	32,327	18,339	1,900	52,566				2,933	1,159	4,092	2,609	0	3,339	16,054		
116		Mar	29,740	17,245	1,313	48,298				2,937	1,161	4,097	2,613	0	3,345	16,256		
117		Apr	24,482	15,693	1,714	41,890				2,952	1,167	4,118	2,643	0	3,382	14,487		
118		May	18,200	13,401	1,880	33,480				2,944	1,164	4,108	2,627	0	3,363	15,881		
119		Jun	13,904	12,230	1,894	28,028				2,967	1,172	4,139	2,668	0	3,414	18,434		
120		Jul	13,213	11,796	2,226	27,234				2,949	1,165	4,115	2,646	0	3,387	21,357		
121		Aug	13,146	11,700	2,030	26,876				2,939	1,161	4,100	2,623	0	3,358	21,281		
122		Sep	12,822	11,724	2,101	26,646				2,925	1,156	4,081	2,596	0	3,323	19,884		
123		Oct	15,371	12,452	2,012	29,835				2,953	1,167	4,119	2,602	0	3,331	19,537		
124		Nov	24,097	15,426	2,022	41,545				2,962	1,170	4,132	2,608	0	3,338	18,122		
125		Dec	37,907	19,743	1,979	59,629				2,949	1,165	4,114	2,607	0	3,336	20,119		
126																		
127	2026	Jan	36,451	19,504	1,983	57,938				2,878	1,138	4,016	2,556	0	3,272	18,358		
128		Feb	31,869	18,257	1,900	52,026				2,934	1,159	4,093	2,599	0	3,326	16,049		
129		Mar	29,336	17,171	1,313	47,820				2,939	1,161	4,100	2,605	0	3,335	16,711		
130		Apr	24,174	15,632	1,714	41,519				2,955	1,168	4,123	2,636	0	3,374	14,849		
131		May	17,991	13,354	1,880	33,225				2,949	1,165	4,115	2,623	0	3,357	14,830		
132		Jun	13,765	12,191	1,894	27,849				2,972	1,175	4,147	2,665	0	3,411	17,209		
133		Jul	13,086	11,760	2,226	27,072				2,957	1,169	4,126	2,648	0	3,389	20,931		
134		Aug	13,020	11,665	2,030	26,715				2,947	1,165	4,111	2,625	0	3,360	23,256		
135		Sep	12,699	11,688	2,101	26,488				2,934	1,159	4,093	2,598	0	3,326	21,506		
136		Oct	15,208	12,411	2,012	29,631				2,962	1,171	4,133	2,605	0	3,335	19,729		
137		Nov	23,792	15,366	2,022	41,181				2,970	1,174	4,144	2,611	0	3,342	17,227		
138		Dec	37,361	19,651	1,979	58,992				2,956	1,168	4,125	2,610	0	3,341	18,820		
139																		
140	2027	Jan	35,908	19,405	1,983	57,296				2,882	1,139	4,021	2,560	0	3,277	18,285		
141		Feb	31,394	18,167	1,900	51,461				2,938	1,161	4,099	2,602	0	3,331	14,788		
142		Mar	28,917	17,088	1,313	47,319				2,943	1,163	4,107	2,608	0	3,338	16,513		
143		Apr	23,853	15,563	1,714	41,130				2,961	1,170	4,131	2,639	0	3,377	12,980		
144		May	17,773	13,301	1,880	32,954				2,954	1,167	4,122	2,625	0	3,360	14,513		
145		Jun	13,619	12,146	1,894	27,658				2,977	1,176	4,153	2,666	0	3,413	18,178		
146		Jul	12,953	11,718	2,226	26,897				2,960	1,170	4,130	2,648	0	3,389	21,505		
147		Aug	12,888	11,624	2,030	26,542				2,949	1,165	4,114	2,625	0	3,360	20,147		
148		Sep	12,569	11,648	2,101	26,318				2,935	1,160	4,095	2,598	0	3,325	22,430		
149		Oct	15,038	12,365	2,012	29,414				2,963	1,171	4,134	2,605	0	3,334	20,149		
150		Nov	23,476	15,300	2,022	40,797				2,971	1,174	4,146	2,610	0	3,340	17,344		
151		Dec	36,796	19,550	1,979	58,325				2,957	1,169	4,126	2,607	0	3,337	18,720		
152																		
153	2028	Jan	35,354	19,299	1,983	56,636				2,884	1,140	4,024	2,555	0	3,271	17,224		
154		Feb	30,909	18,072	1,900	50,881				2,939	1,161	4,100	2,596	0	3,323	14,448		
155		Mar	28,489	17,001	1,313	46,803				2,943	1,163	4,106	2,601	0	3,329	14,116		
156		Apr	23,524	15,489	1,714	40,727				2,958	1,169	4,127	2,630	0	3,366	13,345		
157		May	17,550	13,243	1,880	32,673				2,950	1,166	4,116	2,615	0	3,347	13,862		
158		Jun	13,468	12,097	1,894	27,459				2,972	1,174	4,146	2,655	0	3,399	16,526		
159		Jul	12,815	11,673	2,226	26,714				2,954	1,167	4,121	2,635	0	3,372	19,016		
160		Aug	12,751	11,580	2,030	26,361				2,943	1,163	4,106	2,612	0	3,343	21,051		
161		Sep	12,436	11,603	2,101	26,140				2,929	1,157	4,086	2,585	0	3,308	19,730		
162		Oct	14,862	12,315	2,012	29,189				2,957	1,168	4,125	2,591	0	3,317	18,566		
163		Nov	23,151	15,228	2,022	40,402				2,965	1,172	4,136	2,596	0	3,323	16,437		
164		Dec	36,219	19,443	1,979	57,642				2,951	1,166	4,117	2,594	0	3,320	17,789		

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
59	MONTHLY FORECAST DATA															
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1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
59	MONTHLY FORECAST DATA															
60			ratiion			Noncore		System-Wide		System Total				Total System		
113			EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total End-Use Dmd	(Mdth/d)	Co-Use-Fuel	"Un-Acnt'd-For" (UAF)	Total System Throughput					
114	2025	Jan	2,568	22,961	25,529	29,546	88,098	284	351	2,011	90,461					
115		Feb	2,609	19,393	22,001	26,094	78,660	281	314	1,796	80,769					
116		Mar	2,613	19,600	22,214	26,311	74,609	241	298	1,703	76,610					
117		Apr	2,643	17,869	20,512	24,630	66,520	222	265	1,519	68,304					
118		May	2,627	19,244	21,871	25,979	59,459	192	237	1,357	61,054					
119		Jun	2,668	21,848	24,516	28,655	56,683	189	226	1,294	58,203					
120		Jul	2,646	24,744	27,390	31,505	58,739	189	234	1,341	60,314					
121		Aug	2,623	24,638	27,262	31,362	58,237	188	232	1,330	59,799					
122		Sep	2,596	23,207	25,803	29,884	56,530	188	225	1,291	58,046					
123		Oct	2,602	22,868	25,470	29,590	59,425	192	237	1,357	61,018					
124		Nov	2,608	21,459	24,067	28,199	69,745	232	278	1,592	71,615					
125		Dec	2,607	23,455	26,062	30,176	89,805	290	358	2,050	92,214					
126	2026	Jan	2,556	21,630	24,187	28,202	86,140	278	344	1,967	88,451					
128		Feb	2,599	19,376	21,975	26,068	78,093	279	311	1,783	80,188					
129		Mar	2,605	20,046	22,651	26,752	74,571	241	297	1,702	76,571					
130		Apr	2,636	18,223	20,859	24,982	66,502	222	265	1,518	68,285					
131		May	2,623	18,188	20,811	24,926	58,150	188	232	1,328	59,710					
132		Jun	2,665	20,621	23,286	27,433	55,283	184	220	1,262	56,765					
133		Jul	2,648	24,320	26,967	31,093	58,165	188	232	1,328	59,725					
134		Aug	2,625	26,616	29,242	33,353	60,068	194	240	1,371	61,679					
135		Sep	2,598	24,832	27,431	31,523	58,011	193	231	1,324	59,567					
136		Oct	2,605	23,063	25,668	29,802	59,433	192	237	1,357	61,027					
137		Nov	2,611	20,569	23,180	27,324	68,505	228	273	1,564	70,342					
138		Dec	2,610	22,161	24,772	28,897	87,888	284	350	2,006	90,245					
139	2027	Jan	2,560	21,561	24,122	28,142	85,438	276	341	1,951	87,730					
141		Feb	2,602	18,119	20,721	24,820	76,282	272	304	1,742	78,327					
142		Mar	2,608	19,852	22,460	26,567	73,885	238	295	1,687	75,867					
143		Apr	2,639	16,357	18,996	23,128	64,257	214	256	1,467	65,981					
144		May	2,625	17,873	20,498	24,619	57,573	186	230	1,314	59,117					
145		Jun	2,666	21,591	24,258	28,411	56,069	187	224	1,280	57,573					
146		Jul	2,648	24,894	27,542	31,672	58,568	189	234	1,337	60,139					
147		Aug	2,625	23,507	26,132	30,246	56,788	183	226	1,296	58,311					
148		Sep	2,598	25,755	28,353	32,448	58,766	196	234	1,342	60,342					
149		Oct	2,605	23,483	26,088	30,222	59,637	192	238	1,362	61,236					
150		Nov	2,610	20,684	23,293	27,439	68,236	227	272	1,558	70,066					
151		Dec	2,607	22,057	24,665	28,790	87,116	281	347	1,989	89,452					
152	2028	Jan	2,555	20,495	23,050	27,074	83,710	270	334	1,911	85,955					
154		Feb	2,596	17,770	20,366	24,466	75,348	260	300	1,720	77,368					
155		Mar	2,601	17,445	20,045	24,151	70,954	229	283	1,620	72,856					
156		Apr	2,630	16,711	19,341	23,467	64,194	214	256	1,466	65,916					
157		May	2,615	17,209	19,824	23,939	56,612	183	226	1,292	58,130					
158		Jun	2,655	19,925	22,580	26,726	54,185	181	216	1,237	55,638					
159		Jul	2,635	22,388	25,023	29,144	55,858	180	223	1,275	57,356					
160		Aug	2,612	24,394	27,006	31,111	57,473	185	229	1,312	59,014					
161		Sep	2,585	23,038	25,623	29,709	55,849	186	223	1,275	57,346					
162		Oct	2,591	21,882	24,474	28,599	57,787	186	230	1,319	59,337					
163		Nov	2,596	19,759	22,355	26,492	66,893	223	267	1,527	68,687					
164		Dec	2,594	21,109	23,703	27,820	85,461	276	341	1,951	87,753					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
167	MONTHLY FORECAST DATA													
168							Nonresidential Core			Total		Noncore - C&I		
169	Average Year Sales (Mth)					Residential	GN-3	G-NGV		Core		C&I (Dist.)	C&I (Trans.)	C&I (Total)
170	2021	Jan	31			39,109	15,671	923		55,702		0	0	0
171		Feb	28			34,194	14,650	881		49,725		0	0	0
172		Mar	31			31,385	13,780	454		45,619		0	0	0
173		Apr	30			25,741	12,527	699		38,967		0	0	0
174		May	31			19,053	10,678	856		30,587		0	0	0
175		Jun	30			14,474	9,742	848		25,065		0	0	0
176		Jul	31			13,732	9,388	875		23,995		0	0	0
177		Aug	31			13,661	9,306	819		23,785		0	0	0
178		Sep	30			13,326	9,324	960		23,611		0	0	0
179		Oct	31			16,038	9,913	878		26,830		0	0	0
180		Nov	30			25,340	12,302	883		38,526		0	0	0
181		Dec	31			40,131	15,782	883		56,796		0	0	0
182														
183	2022	Jan	31			38,516	16,133	868		55,516		0	0	0
184		Feb	28			33,675	15,088	828		49,591		0	0	0
185		Mar	31			30,926	14,188	422		45,536		0	0	0
186		Apr	30			25,387	12,899	654		38,940		0	0	0
187		May	31			18,811	11,000	802		30,613		0	0	0
188		Jun	30			14,310	10,034	794		25,138		0	0	0
189		Jul	31			13,581	9,673	819		24,073		0	0	0
190		Aug	31			13,511	9,591	766		23,867		0	0	0
191		Sep	30			13,180	9,610	899		23,689		0	0	0
192		Oct	31			15,847	10,214	821		26,882		0	0	0
193		Nov	30			24,991	12,673	826		38,490		0	0	0
194		Dec	31			39,514	16,252	825		56,591		0	0	0
195														
196	2023	Jan	31			37,992	16,271	868		55,130		0	0	0
197		Feb	28			33,217	15,221	828		49,266		0	0	0
198		Mar	31			30,522	14,312	422		45,256		0	0	0
199		Apr	30			25,078	13,015	654		38,748		0	0	0
200		May	31			18,602	11,105	802		30,508		0	0	0
201		Jun	30			14,170	10,130	794		25,094		0	0	0
202		Jul	31			13,454	9,767	819		24,040		0	0	0
203		Aug	31			13,385	9,686	766		23,837		0	0	0
204		Sep	30			13,057	9,705	899		23,661		0	0	0
205		Oct	31			15,684	10,313	821		26,818		0	0	0
206		Nov	30			24,686	12,790	826		38,303		0	0	0
207		Dec	31			38,968	16,393	825		56,186		0	0	0
208														
209	2024	Jan	31			37,406	16,247	868		54,521		0	0	0
210		Feb	29			32,705	15,202	828		48,735		0	0	0
211		Mar	31			30,069	14,295	422		44,786		0	0	0
212		Apr	30			24,729	13,004	654		38,387		0	0	0
213		May	31			18,363	11,099	802		30,264		0	0	0
214		Jun	30			14,008	10,127	794		24,929		0	0	0
215		Jul	31			13,306	9,766	819		23,891		0	0	0
216		Aug	31			13,238	9,686	766		23,690		0	0	0
217		Sep	30			12,913	9,705	899		23,517		0	0	0
218		Oct	31			15,496	10,311	821		26,628		0	0	0
219		Nov	30			24,341	12,781	826		37,948		0	0	0
220		Dec	31			38,359	16,370	825		55,553		0	0	0

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
167	<u>MONTHLY FORECAST DATA</u>													
168							Nonresidential Core		Total		Noncore - C&I			
169	Average Year Sales (Mth)					Residential	GN-3	G-NGV	Core		C&I (Dist.)	C&I (Trans.)	C&I (Total)	
221														
222	2025	Jan	31			36,792	16,195	821	53,808		0	0	0	
223		Feb	28			32,167	15,157	784	48,107		0	0	0	
224		Mar	31			29,593	14,253	400	44,246		0	0	0	
225		Apr	30			24,361	12,971	619	37,951		0	0	0	
226		May	31			18,110	11,076	759	29,945		0	0	0	
227		Jun	30			13,835	10,108	752	24,695		0	0	0	
228		Jul	31			13,147	9,749	775	23,672		0	0	0	
229		Aug	31			13,081	9,670	725	23,476		0	0	0	
230		Sep	30			12,759	9,690	851	23,299		0	0	0	
231		Oct	31			15,295	10,291	778	26,364		0	0	0	
232		Nov	30			23,978	12,749	782	37,510		0	0	0	
233		Dec	31			37,720	16,317	781	54,819		0	0	0	
234														
235	2026	Jan	31			36,271	16,120	821	53,211		0	0	0	
236		Feb	28			31,711	15,089	784	47,584		0	0	0	
237		Mar	31			29,191	14,191	400	43,783		0	0	0	
238		Apr	30			24,054	12,919	619	37,593		0	0	0	
239		May	31			17,902	11,037	759	29,698		0	0	0	
240		Jun	30			13,697	10,076	752	24,524		0	0	0	
241		Jul	31			13,021	9,719	775	23,516		0	0	0	
242		Aug	31			12,956	9,641	725	23,322		0	0	0	
243		Sep	30			12,636	9,660	851	23,148		0	0	0	
244		Oct	31			15,133	10,258	778	26,169		0	0	0	
245		Nov	30			23,675	12,700	782	37,157		0	0	0	
246		Dec	31			37,177	16,241	781	54,199		0	0	0	
247														
248	2027	Jan	31			35,731	16,038	821	52,589		0	0	0	
249		Feb	28			31,239	15,015	784	47,037		0	0	0	
250		Mar	31			28,774	14,123	400	43,298		0	0	0	
251		Apr	30			23,735	12,862	619	37,217		0	0	0	
252		May	31			17,686	10,993	759	29,438		0	0	0	
253		Jun	30			13,551	10,039	752	24,341		0	0	0	
254		Jul	31			12,889	9,685	775	23,349		0	0	0	
255		Aug	31			12,824	9,607	725	23,157		0	0	0	
256		Sep	30			12,507	9,627	851	22,985		0	0	0	
257		Oct	31			14,963	10,220	778	25,961		0	0	0	
258		Nov	30			23,360	12,645	782	36,787		0	0	0	
259		Dec	31			36,615	16,158	781	53,554		0	0	0	
260														
261	2028	Jan	31			35,179	15,951	821	51,951		0	0	0	
262		Feb	29			30,756	14,936	784	46,476		0	0	0	
263		Mar	31			28,348	14,051	400	42,799		0	0	0	
264		Apr	30			23,408	12,801	619	36,828		0	0	0	
265		May	31			17,463	10,946	759	29,168		0	0	0	
266		Jun	30			13,401	9,998	752	24,151		0	0	0	
267		Jul	31			12,752	9,647	775	23,175		0	0	0	
268		Aug	31			12,688	9,571	725	22,984		0	0	0	
269		Sep	30			12,374	9,590	851	22,816		0	0	0	
270		Oct	31			14,789	10,178	778	25,744		0	0	0	
271		Nov	30			23,037	12,586	782	36,405		0	0	0	
272		Dec	31			36,040	16,070	781	52,891		0	0	0	

	A	B	C	D	E	O	P	Q	R	S	T	U	V	W	X	Y
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
167	MONTHLY FORECAST DATA															
168	Noncore - Electric Generation											Noncore	System-Wide	System Total		
169	Average Year Sales (Mth)		EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total End-Use Dmd	(Mth/d)				
170	2021	Jan	31	0	0	0	0	0	0	0	0	55,702	180			
171		Feb	28	0	0	0	0	0	0	0	0	49,725	178			
172		Mar	31	0	0	0	0	0	0	0	0	45,619	147			
173		Apr	30	0	0	0	0	0	0	0	0	38,967	130			
174		May	31	0	0	0	0	0	0	0	0	30,587	99			
175		Jun	30	0	0	0	0	0	0	0	0	25,065	84			
176		Jul	31	0	0	0	0	0	0	0	0	23,995	77			
177		Aug	31	0	0	0	0	0	0	0	0	23,785	77			
178		Sep	30	0	0	0	0	0	0	0	0	23,611	79			
179		Oct	31	0	0	0	0	0	0	0	0	26,830	87			
180		Nov	30	0	0	0	0	0	0	0	0	38,526	128			
181		Dec	31	0	0	0	0	0	0	0	0	56,796	183			
182																
183	2022	Jan	31	0	0	0	0	0	0	0	0	55,516	179			
184		Feb	28	0	0	0	0	0	0	0	0	49,591	177			
185		Mar	31	0	0	0	0	0	0	0	0	45,536	147			
186		Apr	30	0	0	0	0	0	0	0	0	38,940	130			
187		May	31	0	0	0	0	0	0	0	0	30,613	99			
188		Jun	30	0	0	0	0	0	0	0	0	25,138	84			
189		Jul	31	0	0	0	0	0	0	0	0	24,073	78			
190		Aug	31	0	0	0	0	0	0	0	0	23,867	77			
191		Sep	30	0	0	0	0	0	0	0	0	23,689	79			
192		Oct	31	0	0	0	0	0	0	0	0	26,882	87			
193		Nov	30	0	0	0	0	0	0	0	0	38,490	128			
194		Dec	31	0	0	0	0	0	0	0	0	56,591	183			
195																
196	2023	Jan	31	0	0	0	0	0	0	0	0	55,130	178			
197		Feb	28	0	0	0	0	0	0	0	0	49,266	176			
198		Mar	31	0	0	0	0	0	0	0	0	45,256	146			
199		Apr	30	0	0	0	0	0	0	0	0	38,748	129			
200		May	31	0	0	0	0	0	0	0	0	30,508	98			
201		Jun	30	0	0	0	0	0	0	0	0	25,094	84			
202		Jul	31	0	0	0	0	0	0	0	0	24,040	78			
203		Aug	31	0	0	0	0	0	0	0	0	23,837	77			
204		Sep	30	0	0	0	0	0	0	0	0	23,661	79			
205		Oct	31	0	0	0	0	0	0	0	0	26,818	87			
206		Nov	30	0	0	0	0	0	0	0	0	38,303	128			
207		Dec	31	0	0	0	0	0	0	0	0	56,186	181			
208																
209	2024	Jan	31	0	0	0	0	0	0	0	0	54,521	176			
210		Feb	29	0	0	0	0	0	0	0	0	48,735	168			
211		Mar	31	0	0	0	0	0	0	0	0	44,786	144			
212		Apr	30	0	0	0	0	0	0	0	0	38,387	128			
213		May	31	0	0	0	0	0	0	0	0	30,264	98			
214		Jun	30	0	0	0	0	0	0	0	0	24,929	83			
215		Jul	31	0	0	0	0	0	0	0	0	23,891	77			
216		Aug	31	0	0	0	0	0	0	0	0	23,690	76			
217		Sep	30	0	0	0	0	0	0	0	0	23,517	78			
218		Oct	31	0	0	0	0	0	0	0	0	26,628	86			
219		Nov	30	0	0	0	0	0	0	0	0	37,948	126			
220		Dec	31	0	0	0	0	0	0	0	0	55,553	179			

	A	B	C	D	E	O	P	Q	R	S	T	U	V	W	X	Y
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
167	MONTHLY FORECAST DATA															
168	Noncore - Electric Generation											Noncore	System-Wide	System Total		
169	EG-Dist. (<3MMThms)		EG-Trans. (<3MMThms)		EG-Dist. (>=3MMThms)		EG-Trans. (>=3MMThms)		EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total End-Use Dmd	(Mth/d)		
221	Average Year Sales (Mth)															
222	2025	Jan	31	0	0	0	0	0	0	0	0	0	0	53,808	174	
223		Feb	28	0	0	0	0	0	0	0	0	0	0	48,107	172	
224		Mar	31	0	0	0	0	0	0	0	0	0	0	44,246	143	
225		Apr	30	0	0	0	0	0	0	0	0	0	0	37,951	127	
226		May	31	0	0	0	0	0	0	0	0	0	0	29,945	97	
227		Jun	30	0	0	0	0	0	0	0	0	0	0	24,695	82	
228		Jul	31	0	0	0	0	0	0	0	0	0	0	23,672	76	
229		Aug	31	0	0	0	0	0	0	0	0	0	0	23,476	76	
230		Sep	30	0	0	0	0	0	0	0	0	0	0	23,299	78	
231		Oct	31	0	0	0	0	0	0	0	0	0	0	26,364	85	
232		Nov	30	0	0	0	0	0	0	0	0	0	0	37,510	125	
233		Dec	31	0	0	0	0	0	0	0	0	0	0	54,819	177	
234																
235	2026	Jan	31	0	0	0	0	0	0	0	0	0	0	53,211	172	
236		Feb	28	0	0	0	0	0	0	0	0	0	0	47,584	170	
237		Mar	31	0	0	0	0	0	0	0	0	0	0	43,783	141	
238		Apr	30	0	0	0	0	0	0	0	0	0	0	37,593	125	
239		May	31	0	0	0	0	0	0	0	0	0	0	29,698	96	
240		Jun	30	0	0	0	0	0	0	0	0	0	0	24,524	82	
241		Jul	31	0	0	0	0	0	0	0	0	0	0	23,516	76	
242		Aug	31	0	0	0	0	0	0	0	0	0	0	23,322	75	
243		Sep	30	0	0	0	0	0	0	0	0	0	0	23,148	77	
244		Oct	31	0	0	0	0	0	0	0	0	0	0	26,169	84	
245		Nov	30	0	0	0	0	0	0	0	0	0	0	37,157	124	
246		Dec	31	0	0	0	0	0	0	0	0	0	0	54,199	175	
247																
248	2027	Jan	31	0	0	0	0	0	0	0	0	0	0	52,589	170	
249		Feb	28	0	0	0	0	0	0	0	0	0	0	47,037	168	
250		Mar	31	0	0	0	0	0	0	0	0	0	0	43,298	140	
251		Apr	30	0	0	0	0	0	0	0	0	0	0	37,217	124	
252		May	31	0	0	0	0	0	0	0	0	0	0	29,438	95	
253		Jun	30	0	0	0	0	0	0	0	0	0	0	24,341	81	
254		Jul	31	0	0	0	0	0	0	0	0	0	0	23,349	75	
255		Aug	31	0	0	0	0	0	0	0	0	0	0	23,157	75	
256		Sep	30	0	0	0	0	0	0	0	0	0	0	22,985	77	
257		Oct	31	0	0	0	0	0	0	0	0	0	0	25,961	84	
258		Nov	30	0	0	0	0	0	0	0	0	0	0	36,787	123	
259		Dec	31	0	0	0	0	0	0	0	0	0	0	53,554	173	
260																
261	2028	Jan	31	0	0	0	0	0	0	0	0	0	0	51,951	168	
262		Feb	29	0	0	0	0	0	0	0	0	0	0	46,476	160	
263		Mar	31	0	0	0	0	0	0	0	0	0	0	42,799	138	
264		Apr	30	0	0	0	0	0	0	0	0	0	0	36,828	123	
265		May	31	0	0	0	0	0	0	0	0	0	0	29,168	94	
266		Jun	30	0	0	0	0	0	0	0	0	0	0	24,151	81	
267		Jul	31	0	0	0	0	0	0	0	0	0	0	23,175	75	
268		Aug	31	0	0	0	0	0	0	0	0	0	0	22,984	74	
269		Sep	30	0	0	0	0	0	0	0	0	0	0	22,816	76	
270		Oct	31	0	0	0	0	0	0	0	0	0	0	25,744	83	
271		Nov	30	0	0	0	0	0	0	0	0	0	0	36,405	121	
272		Dec	31	0	0	0	0	0	0	0	0	0	0	52,891	171	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)																	
275	MONTHLY FORECAST DATA																	
276							Nonresidential Core			Total	Noncore - C&I			Noncore - Electric Gene				
277						Residential	GN-3	G-NGV	Core		C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	
278	Cold Year Throughput (Mth)																	
279	2021	Jan	45,096	20,171	2,002	67,270	3,053	1,149	4,202	2,693	228	2,975	23,986					
280	Feb	39,440	18,786	1,918	60,144	2,843	1,181	4,024	2,345	134	2,966	13,367						
281	Mar	35,602	17,522	1,301	54,425	3,769	1,399	5,168	2,663	434	3,245	21,653						
282	Apr	28,402	15,686	1,716	45,803	3,498	1,303	4,801	2,692	388	2,233	20,296						
283	May	20,331	13,167	1,897	35,394	3,252	1,047	4,299	2,819	323	2,999	28,708						
284	Jun	14,764	11,833	1,909	28,506	3,081	1,320	4,401	2,561	826	2,983	31,867						
285	Jul	13,813	11,362	2,222	27,397	2,516	993	3,509	3,083	1,368	3,528	45,075						
286	Aug	13,730	11,260	2,030	27,020	2,673	1,124	3,797	2,646	692	3,467	34,330						
287	Sep	13,412	11,286	2,120	26,818	2,608	617	3,225	2,817	648	3,441	31,373						
288	Oct	16,665	12,109	2,024	30,798	2,952	1,068	4,020	2,538	376	2,809	39,206						
289	Nov	27,993	15,413	2,035	45,441	2,813	1,339	4,151	2,341	675	3,252	37,961						
290	Dec	46,568	20,399	1,995	68,963	3,081	1,742	4,824	2,496	1,001	3,568	33,143						
291	2022	Jan	44,496	20,728	2,030	67,254	3,260	1,288	4,548	2,460	0	3,149	27,806					
292	Feb	38,914	19,314	1,945	60,174	3,257	1,287	4,544	2,529	0	3,237	24,362						
293	Mar	35,137	18,014	1,335	54,486	3,196	1,263	4,459	2,554	0	3,270	25,653						
294	Apr	28,044	16,135	1,749	45,928	3,173	1,254	4,427	2,603	0	3,332	24,377						
295	May	20,086	13,557	1,923	35,565	3,121	1,233	4,355	2,595	0	3,321	24,879						
296	Jun	14,599	12,186	1,936	28,721	3,108	1,228	4,337	2,638	0	3,377	25,888						
297	Jul	13,662	11,706	2,270	27,638	3,054	1,207	4,261	2,604	0	3,333	30,453						
298	Aug	13,579	11,604	2,071	27,254	3,027	1,196	4,223	2,596	0	3,322	32,896						
299	Sep	13,265	11,631	2,149	27,045	3,001	1,186	4,187	2,582	0	3,305	31,879						
300	Oct	16,472	12,473	2,055	31,000	3,024	1,195	4,219	2,608	0	3,338	29,223						
301	Nov	27,640	15,861	2,066	45,567	3,022	1,194	4,216	2,618	0	3,351	26,778						
302	Dec	45,943	20,966	2,023	68,932	3,000	1,186	4,186	2,629	0	3,355	29,309						
303																		
304	2023	Jan	43,965	20,894	2,030	66,888	2,926	1,156	4,082	2,577	0	3,298	25,135					
305	Feb	38,450	19,474	1,945	59,869	2,971	1,174	4,145	2,620	0	3,353	21,843						
306	Mar	34,728	18,163	1,335	54,226	2,968	1,173	4,141	2,627	0	3,362	22,854						
307	Apr	27,732	16,276	1,749	45,757	2,978	1,177	4,155	2,658	0	3,402	21,223						
308	May	19,875	13,682	1,923	35,480	2,966	1,172	4,138	2,644	0	3,385	22,169						
309	Jun	14,458	12,302	1,936	28,697	2,984	1,179	4,164	2,686	0	3,438	22,869						
310	Jul	13,534	11,820	2,270	27,624	2,964	1,172	4,136	2,667	0	3,413	26,610						
311	Aug	13,453	11,719	2,071	27,243	2,951	1,166	4,117	2,644	0	3,384	28,212						
312	Sep	13,141	11,747	2,149	27,037	2,935	1,160	4,095	2,617	0	3,349	27,900						
313	Oct	16,308	12,592	2,055	30,955	2,960	1,170	4,129	2,624	0	3,359	25,919						
314	Nov	27,331	16,002	2,066	45,400	2,967	1,173	4,140	2,629	0	3,365	23,976						
315	Dec	45,390	21,135	2,023	68,547	2,953	1,167	4,120	2,628	0	3,363	25,580						
316																		
317	2024	Jan	43,372	20,863	2,030	66,265	2,880	1,138	4,018	2,572	0	3,292	20,814					
318	Feb	37,931	19,450	1,945	59,326	2,933	1,159	4,093	2,614	0	3,345	19,467						
319	Mar	34,270	18,140	1,335	53,745	2,937	1,161	4,098	2,619	0	3,352	18,574						
320	Apr	27,379	16,261	1,749	45,389	2,953	1,167	4,120	2,649	0	3,390	17,203						
321	May	19,634	13,676	1,923	35,233	2,946	1,164	4,110	2,635	0	3,373	18,060						
322	Jun	14,295	12,299	1,936	28,530	2,969	1,173	4,142	2,677	0	3,427	19,005						
323	Jul	13,385	11,819	2,270	27,474	2,953	1,167	4,120	2,659	0	3,403	23,151						
324	Aug	13,305	11,720	2,071	27,095	2,942	1,163	4,105	2,636	0	3,374	23,739						
325	Sep	12,996	11,747	2,149	26,892	2,929	1,157	4,086	2,609	0	3,340	23,330						
326	Oct	16,118	12,589	2,055	30,763	2,956	1,168	4,125	2,618	0	3,351	22,249						
327	Nov	26,983	15,990	2,066	45,039	2,964	1,172	4,136	2,622	0	3,356	20,263						
328	Dec	44,773	21,104	2,023	67,900	2,951	1,166	4,117	2,620	0	3,353	21,810						

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)																	
1																		
275	MONTHLY FORECAST DATA																	
276							Nonresidential Core			Total	Noncore - C&I			Noncore - Electric Gene				
277						Residential	GN-3	G-NGV	Core		C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)	
329	Cold Year Throughput (Mth)																	
330	2025	Jan				42,750	20,799	1,983	65,532		2,879	1,138	4,017	2,568	0	3,286	19,675	
331		Feb				37,387	19,393	1,900	58,681		2,933	1,159	4,092	2,609	0	3,339	16,054	
332		Mar				33,788	18,089	1,313	53,190		2,937	1,161	4,097	2,613	0	3,345	16,256	
333		Apr				27,008	16,220	1,714	44,941		2,952	1,167	4,118	2,643	0	3,382	14,487	
334		May				19,379	13,647	1,880	34,906		2,944	1,164	4,108	2,627	0	3,363	15,881	
335		Jun				14,121	12,276	1,894	28,291		2,967	1,172	4,139	2,668	0	3,414	18,434	
336		Jul				13,226	11,799	2,226	27,251		2,949	1,165	4,115	2,646	0	3,387	21,357	
337		Aug				13,147	11,700	2,030	26,877		2,939	1,161	4,100	2,623	0	3,358	21,281	
338		Sep				12,841	11,728	2,101	26,670		2,925	1,156	4,081	2,596	0	3,323	19,884	
339		Oct				15,917	12,565	2,012	30,494		2,953	1,167	4,119	2,602	0	3,331	19,537	
340		Nov				26,616	15,951	2,022	44,590		2,962	1,170	4,132	2,608	0	3,338	18,122	
341		Dec				44,126	21,039	1,979	67,145		2,949	1,165	4,114	2,607	0	3,336	20,119	
342																		
343	2026	Jan				42,222	20,706	1,983	64,912		2,878	1,138	4,016	2,556	0	3,272	18,358	
344		Feb				36,925	19,310	1,900	58,136		2,934	1,159	4,093	2,599	0	3,326	16,049	
345		Mar				33,381	18,013	1,313	52,708		2,939	1,161	4,100	2,605	0	3,335	16,711	
346		Apr				26,697	16,157	1,714	44,568		2,955	1,168	4,123	2,636	0	3,374	14,849	
347		May				19,170	13,599	1,880	34,649		2,949	1,165	4,115	2,623	0	3,357	14,830	
348		Jun				13,982	12,236	1,894	28,112		2,972	1,175	4,147	2,665	0	3,411	17,209	
349		Jul				13,099	11,762	2,226	27,088		2,957	1,169	4,126	2,648	0	3,389	20,931	
350		Aug				13,021	11,665	2,030	26,716		2,947	1,165	4,111	2,625	0	3,360	23,256	
351		Sep				12,718	11,692	2,101	26,511		2,934	1,159	4,093	2,598	0	3,326	21,506	
352		Oct				15,753	12,525	2,012	30,290		2,962	1,171	4,133	2,605	0	3,335	19,729	
353		Nov				26,310	15,891	2,022	44,223		2,970	1,174	4,144	2,611	0	3,342	17,227	
354		Dec				43,576	20,945	1,979	66,500		2,956	1,168	4,125	2,610	0	3,341	18,820	
355																		
356	2027	Jan				41,675	20,605	1,983	64,264		2,882	1,139	4,021	2,560	0	3,277	18,285	
357		Feb				36,447	19,219	1,900	57,566		2,938	1,161	4,099	2,602	0	3,331	14,788	
358		Mar				32,960	17,930	1,313	52,202		2,943	1,163	4,107	2,608	0	3,338	16,513	
359		Apr				26,374	16,087	1,714	44,176		2,961	1,170	4,131	2,639	0	3,377	12,980	
360		May				18,951	13,546	1,880	34,377		2,954	1,167	4,122	2,625	0	3,360	14,513	
361		Jun				13,836	12,191	1,894	27,921		2,977	1,176	4,153	2,666	0	3,413	18,178	
362		Jul				12,966	11,721	2,226	26,913		2,960	1,170	4,130	2,648	0	3,389	21,505	
363		Aug				12,889	11,625	2,030	26,544		2,949	1,165	4,114	2,625	0	3,360	20,147	
364		Sep				12,589	11,652	2,101	26,341		2,935	1,160	4,095	2,598	0	3,325	22,430	
365		Oct				15,582	12,478	2,012	30,072		2,963	1,171	4,134	2,605	0	3,334	20,149	
366		Nov				25,991	15,823	2,022	43,837		2,971	1,174	4,146	2,610	0	3,340	17,344	
367		Dec				43,006	20,843	1,979	65,828		2,957	1,169	4,126	2,607	0	3,337	18,720	
368																		
369	2028	Jan				41,117	20,498	1,983	63,598		2,884	1,140	4,024	2,555	0	3,271	17,224	
370		Feb				35,958	19,122	1,900	56,980		2,939	1,161	4,100	2,596	0	3,323	14,448	
371		Mar				32,528	17,841	1,313	51,682		2,943	1,163	4,106	2,601	0	3,329	14,116	
372		Apr				26,044	16,013	1,714	43,771		2,958	1,169	4,127	2,630	0	3,366	13,345	
373		May				18,726	13,488	1,880	34,094		2,950	1,166	4,116	2,615	0	3,347	13,862	
374		Jun				13,685	12,142	1,894	27,721		2,972	1,174	4,146	2,655	0	3,399	16,526	
375		Jul				12,829	11,675	2,226	26,730		2,954	1,167	4,121	2,635	0	3,372	19,016	
376		Aug				12,753	11,580	2,030	26,363		2,943	1,163	4,106	2,612	0	3,343	21,051	
377		Sep				12,455	11,607	2,101	26,163		2,929	1,157	4,086	2,585	0	3,308	19,730	
378		Oct				15,406	12,428	2,012	29,846		2,957	1,168	4,125	2,591	0	3,317	18,566	
379		Nov				25,665	15,751	2,022	43,438		2,965	1,172	4,136	2,596	0	3,323	16,437	
380		Dec				42,424	20,734	1,979	65,138		2,951	1,166	4,117	2,594	0	3,320	17,789	

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
275	MONTHLY FORECAST DATA															
276	ratiion		Noncore			System-Wide		System Total			"Un-Acnt'd-For" (UAF)		Total System Throughput			
277	EG (<3MMThms) EG (>=3MMThms)		EG (Total)		Total		Total End-Use Dmd		(Mdth/d)		Co-Use-Fuel					
278	Cold Year Throughput (Mth)															
279	2021	Jan	2,921	26,960	29,882	34,084	101,353	327	404	2,314	104,071					
280		Feb	2,478	16,333	18,811	22,835	82,979	296	331	1,894	85,204					
281		Mar	3,097	24,898	27,995	33,162	87,587	283	349	2,000	89,936					
282		Apr	3,080	22,529	25,609	30,411	76,214	254	304	1,740	78,258					
283		May	3,142	31,706	34,849	39,147	74,542	240	297	1,702	76,541					
284		Jun	3,387	34,850	38,237	42,638	71,144	237	284	1,624	73,052					
285		Jul	4,451	48,603	53,054	56,563	83,960	271	335	1,917	86,212					
286		Aug	3,338	37,797	41,135	44,932	71,953	232	287	1,643	73,882					
287		Sep	3,465	34,814	38,279	41,504	68,322	228	272	1,560	70,155					
288		Oct	2,914	42,015	44,929	48,949	79,747	257	318	1,821	81,885					
289		Nov	3,016	41,213	44,229	48,380	93,821	313	374	2,142	96,337					
290		Dec	3,497	36,711	40,208	45,032	113,994	368	455	2,602	117,052					
291	2022	Jan	2,460	30,955	33,415	37,963	105,217	339	420	2,402	108,038					
292		Feb	2,529	27,599	30,128	34,672	94,845	339	378	2,165	97,389					
293		Mar	2,554	28,923	31,477	35,937	90,422	292	361	2,064	92,847					
294		Apr	2,603	27,709	30,313	34,740	80,668	269	322	1,842	82,832					
295		May	2,595	28,200	30,795	35,149	70,715	228	282	1,614	72,611					
296		Jun	2,638	29,265	31,903	36,240	64,961	217	259	1,483	66,703					
297		Jul	2,604	33,785	36,389	40,650	68,287	220	272	1,559	70,119					
298		Aug	2,596	36,219	38,815	43,038	70,292	227	280	1,605	72,177					
299		Sep	2,582	35,184	37,766	41,953	68,998	230	275	1,575	70,848					
300		Oct	2,608	32,561	35,170	39,389	70,389	227	281	1,607	72,276					
301		Nov	2,618	30,130	32,748	36,964	82,530	275	329	1,884	84,744					
302		Dec	2,629	32,664	35,292	39,478	108,410	350	432	2,475	111,317					
303	2023	Jan	2,577	28,433	31,009	35,092	101,980	329	407	2,328	104,715					
304		Feb	2,620	25,196	27,816	31,961	91,830	328	366	2,096	94,293					
305		Mar	2,627	26,216	28,843	32,984	87,210	281	348	1,991	89,549					
306		Apr	2,658	24,625	27,284	31,439	77,195	257	308	1,762	79,265					
307		May	2,644	25,554	28,198	32,336	67,816	219	270	1,548	69,635					
308		Jun	2,686	26,307	28,994	33,157	61,854	206	247	1,412	63,513					
309		Jul	2,667	30,024	32,690	36,826	64,451	208	257	1,471	66,179					
310		Aug	2,644	31,597	34,241	38,358	65,601	212	262	1,498	67,360					
311		Sep	2,617	31,249	33,866	37,961	64,997	217	259	1,484	66,741					
312		Oct	2,624	29,278	31,902	36,031	66,987	216	267	1,529	68,783					
313		Nov	2,629	27,342	29,971	34,111	79,511	265	317	1,815	81,643					
314		Dec	2,628	28,943	31,571	35,691	104,238	336	416	2,380	107,034					
315	2024	Jan	2,572	24,106	26,677	30,696	96,961	313	387	2,214	99,561					
316		Feb	2,614	22,813	25,426	29,519	88,845	306	354	2,028	91,227					
317		Mar	2,619	21,926	24,545	28,643	82,389	266	329	1,881	84,598					
318		Apr	2,649	20,593	23,242	27,362	72,751	243	290	1,661	74,702					
319		May	2,635	21,433	24,069	28,179	63,411	205	253	1,448	65,112					
320		Jun	2,677	22,432	25,109	29,251	57,781	193	230	1,319	59,330					
321		Jul	2,659	26,554	29,213	33,333	60,807	196	242	1,388	62,438					
322		Aug	2,636	27,113	29,750	33,855	60,950	197	243	1,391	62,584					
323		Sep	2,609	26,669	29,279	33,365	60,257	201	240	1,376	61,873					
324		Oct	2,618	25,599	28,217	32,342	63,104	204	252	1,441	64,797					
325		Nov	2,622	23,619	26,241	30,377	75,417	251	301	1,722	77,439					
326		Dec	2,620	25,163	27,783	31,900	99,800	322	398	2,278	102,476					

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
275	MONTHLY FORECAST DATA															
276			ratiion			Noncore		System-Wide		System Total				"Un-Acnt'd-For" (UAF)		Total System
277	Cold Year Throughput (Mth)		EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total End-Use Dmd	(Mdth/d)	Co-Use-Fuel	For" (UAF)	Throughput					
329																
330	2025	Jan	2,568	22,961	25,529	29,546	95,078	307	379	2,171	97,628					
331		Feb	2,609	19,393	22,001	26,094	84,775	303	338	1,935	87,048					
332		Mar	2,613	19,600	22,214	26,311	79,501	256	317	1,815	81,633					
333		Apr	2,643	17,869	20,512	24,630	69,572	232	277	1,588	71,438					
334		May	2,627	19,244	21,871	25,979	60,885	196	243	1,390	62,518					
335		Jun	2,668	21,848	24,516	28,655	56,946	190	227	1,300	58,473					
336		Jul	2,646	24,744	27,390	31,505	58,755	190	234	1,341	60,331					
337		Aug	2,623	24,638	27,262	31,362	58,239	188	232	1,330	59,801					
338		Sep	2,596	23,207	25,803	29,884	56,554	189	226	1,291	58,070					
339		Oct	2,602	22,868	25,470	29,590	60,084	194	240	1,372	61,695					
340		Nov	2,608	21,459	24,067	28,199	72,789	243	290	1,662	74,741					
341		Dec	2,607	23,455	26,062	30,176	97,321	314	388	2,222	99,931					
342																
343	2026	Jan	2,556	21,630	24,187	28,202	93,114	300	371	2,126	95,611					
344		Feb	2,599	19,376	21,975	26,068	84,203	301	336	1,922	86,461					
345		Mar	2,605	20,046	22,651	26,752	79,459	256	317	1,814	81,590					
346		Apr	2,636	18,223	20,859	24,982	69,551	232	277	1,588	71,416					
347		May	2,623	18,188	20,811	24,926	59,574	192	238	1,360	61,172					
348		Jun	2,665	20,621	23,286	27,433	55,545	185	222	1,268	57,035					
349		Jul	2,648	24,320	26,967	31,093	58,181	188	232	1,328	59,741					
350		Aug	2,625	26,616	29,242	33,353	60,069	194	240	1,371	61,680					
351		Sep	2,598	24,832	27,431	31,523	58,035	193	231	1,325	59,591					
352		Oct	2,605	23,063	25,668	29,802	60,091	194	240	1,372	61,703					
353		Nov	2,611	20,569	23,180	27,324	71,547	238	285	1,633	73,466					
354		Dec	2,610	22,161	24,772	28,897	95,397	308	380	2,178	97,955					
355																
356	2027	Jan	2,560	21,561	24,122	28,142	92,406	298	368	2,110	94,884					
357		Feb	2,602	18,119	20,721	24,820	82,386	294	329	1,881	84,595					
358		Mar	2,608	19,852	22,460	26,567	78,769	254	314	1,798	80,881					
359		Apr	2,639	16,357	18,996	23,128	67,304	224	268	1,537	69,109					
360		May	2,625	17,873	20,498	24,619	58,996	190	235	1,347	60,578					
361		Jun	2,666	21,591	24,258	28,411	56,331	188	225	1,286	57,842					
362		Jul	2,648	24,894	27,542	31,672	58,584	189	234	1,337	60,156					
363		Aug	2,625	23,507	26,132	30,246	56,790	183	226	1,297	58,313					
364		Sep	2,598	25,755	28,353	32,448	58,790	196	234	1,342	60,366					
365		Oct	2,605	23,483	26,088	30,222	60,295	194	240	1,377	61,912					
366		Nov	2,610	20,684	23,293	27,439	71,275	238	284	1,627	73,187					
367		Dec	2,607	22,057	24,665	28,790	94,618	305	377	2,160	97,156					
368																
369	2028	Jan	2,555	20,495	23,050	27,074	90,672	292	362	2,070	93,103					
370		Feb	2,596	17,770	20,366	24,466	81,447	281	325	1,859	83,631					
371		Mar	2,601	17,445	20,045	24,151	75,833	245	302	1,731	77,867					
372		Apr	2,630	16,711	19,341	23,467	67,238	224	268	1,535	69,041					
373		May	2,615	17,209	19,824	23,939	58,034	187	231	1,325	59,590					
374		Jun	2,655	19,925	22,580	26,726	54,447	181	217	1,243	55,907					
375		Jul	2,635	22,388	25,023	29,144	55,874	180	223	1,276	57,372					
376		Aug	2,612	24,394	27,006	31,111	57,474	185	229	1,312	59,015					
377		Sep	2,585	23,038	25,623	29,709	55,872	186	223	1,276	57,371					
378		Oct	2,591	21,882	24,474	28,599	58,445	189	233	1,334	60,012					
379		Nov	2,596	19,759	22,355	26,492	69,930	233	279	1,596	71,805					
380		Dec	2,594	21,109	23,703	27,820	92,957	300	371	2,122	95,450					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)																	
1																		
383																		
		Nonresidential Core			Total	Noncore - C&I			Noncore - Electric Gene									
384	Peak Day Throughput (Mth/Day)	Residential	GN-3	G-NGV	Core	C&I (Dist.)	C&I (Trans.)	C&I (Total)	EG-Dist. (<3MMThms)	EG-Trans. (<3MMThms)	EG-Dist. (>=3MMThms)	EG-Trans. (>=3MMThms)						
385	2021	3,106	993	64.4	4,164	112	44	156	90	115	112	1,950						
386	2022	3,091	1,012	65.3	4,168	97	38	135	85	0	108	1,007						
387	2023	3,077	1,018	65.3	4,161	95	38	133	85	0	108	879						
388	2024	3,062	1,018	65.3	4,145	95	38	133	85	0	108	773						
389	2025	3,046	1,017	63.8	4,126	95	38	133	84	0	108	816						
390	2026	3,032	1,014	63.8	4,111	95	38	133	84	0	108	861						
391	2027	3,019	1,012	63.8	4,094	95	38	133	84	0	108	862						
392	2028	3,004	1,009	63.8	4,077	95	38	133	84	0	107	611						

	A	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	AC
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)															
383																
384																
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		ratiion			Noncore	System-Wide			
	Peak Day Throughput (Mth/Day)	EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total End-Use Dmd	Co-Use-Fuel	"Un-Acnt'd-For" (UAF)	Total System Throughput
385	2021	205	2,062	2,267	2,422	6,586	26	150	6,763
386	2022	85	1,115	1,200	1,335	5,503	22	126	5,651
387	2023	85	987	1,072	1,205	5,366	21	123	5,510
388	2024	85	881	965	1,098	5,244	21	120	5,384
389	2025	84	924	1,008	1,140	5,267	21	120	5,408
390	2026	84	969	1,053	1,186	5,297	21	121	5,439
391	2027	84	969	1,053	1,186	5,281	21	121	5,422
392	2028	84	718	802	935	5,012	20	114	5,146

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
1	MONTHLY FORECAST DATA													
395				Nonresidential Core			Total	Noncore - C&I						
396				Residential	GN-3	G-NGV	Core	C&I (Dist.)		C&I (Trans.)		C&I (Total)		
397	Forecast Number of Customers													
398	2021	Jan		871,185	30,066	37	901,287		53	5			58	
399		Feb		871,565	30,087	37	901,688		53	5			58	
400		Mar		872,017	30,103	37	902,156		53	5			58	
401		Apr		872,226	30,146	37	902,408		53	5			58	
402		May		872,435	30,188	37	902,659		53	5			58	
403		Jun		872,493	30,158	37	902,687		53	5			58	
404		Jul		872,960	30,172	37	903,168		53	5			58	
405		Aug		874,189	30,197	37	904,422		53	5			58	
406		Sep		874,691	30,189	37	904,916		53	5			58	
407		Oct		874,714	30,208	37	904,958		53	5			58	
408		Nov		875,444	30,205	37	905,685		53	5			58	
409		Dec		875,734	30,242	37	906,012		53	5			58	
410														
411	2022	Jan		876,952	30,348	37	907,337		53	5			58	
412		Feb		877,558	30,347	37	907,942		53	5			58	
413		Mar		878,164	30,346	37	908,547		53	5			58	
414		Apr		878,772	30,364	37	909,173		53	5			58	
415		May		879,376	30,345	37	909,758		53	5			58	
416		Jun		879,980	30,325	37	910,342		53	5			58	
417		Jul		880,402	30,281	37	910,720		53	5			58	
418		Aug		881,189	30,285	37	911,511		53	5			58	
419		Sep		881,976	30,289	37	912,302		53	5			58	
420		Oct		882,766	30,258	37	913,061		53	5			58	
421		Nov		883,550	30,298	37	913,885		53	5			58	
422		Dec		884,334	30,339	37	914,710		53	5			58	
423														
424	2023	Jan		885,298	30,424	37	915,759		53	5			58	
425		Feb		885,902	30,419	37	916,358		53	5			58	
426		Mar		886,505	30,415	37	916,957		53	5			58	
427		Apr		887,117	30,427	37	917,581		53	5			58	
428		May		887,713	30,405	37	918,155		53	5			58	
429		Jun		888,309	30,384	37	918,730		53	5			58	
430		Jul		888,723	30,338	37	919,098		53	5			58	
431		Aug		889,501	30,340	37	919,878		53	5			58	
432		Sep		890,279	30,342	37	920,658		53	5			58	
433		Oct		891,058	30,307	37	921,402		53	5			58	
434		Nov		891,836	30,347	37	922,220		53	5			58	
435		Dec		892,614	30,386	37	923,037		53	5			58	
436														
437	2024	Jan		893,570	30,470	37	924,077		53	5			58	
438		Feb		894,170	30,465	37	924,672		53	5			58	
439		Mar		894,770	30,461	37	925,268		53	5			58	
440		Apr		895,378	30,474	37	925,889		53	5			58	
441		May		895,971	30,452	37	926,460		53	5			58	
442		Jun		896,564	30,431	37	927,032		53	5			58	
443		Jul		896,976	30,385	37	927,398		53	5			58	
444		Aug		897,749	30,387	37	928,173		53	5			58	
445		Sep		898,523	30,389	37	928,949		53	5			58	
446		Oct		899,296	30,354	37	929,687		53	5			58	
447		Nov		900,069	30,393	37	930,499		53	5			58	
448		Dec		900,843	30,432	37	931,312		53	5			58	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
395	<u>MONTHLY FORECAST DATA</u>													
396						Nonresidential Core			Total	Noncore - C&I				
397						Residential	GN-3	G-NGV	Core		C&I (Dist.)	C&I (Trans.)	C&I (Total)	
449	Forecast Number of Customers													
450	2025	Jan				901,792	30,515	36	932,343		53	5	58	
451		Feb				902,390	30,510	36	932,936		53	5	58	
452		Mar				902,988	30,505	36	933,529		53	5	58	
453		Apr				903,590	30,518	36	934,144		53	5	58	
454		May				904,185	30,495	36	934,716		53	5	58	
455		Jun				904,781	30,473	36	935,290		53	5	58	
456		Jul				905,189	30,427	36	935,652		53	5	58	
457		Aug				905,971	30,429	36	936,436		53	5	58	
458		Sep				906,753	30,431	36	937,220		53	5	58	
459		Oct				907,533	30,396	36	937,965		53	5	58	
460		Nov				908,316	30,435	36	938,787		53	5	58	
461		Dec				909,099	30,474	36	939,609		53	5	58	
462	2026	Jan				910,058	30,558	36	940,652		53	5	58	
463		Feb				910,664	30,553	36	941,253		53	5	58	
464		Mar				911,270	30,548	36	941,854		53	5	58	
465		Apr				911,883	30,560	36	942,479		53	5	58	
466		May				912,481	30,538	36	943,055		53	5	58	
467		Jun				913,080	30,516	36	943,632		53	5	58	
468		Jul				913,498	30,470	36	944,004		53	5	58	
469		Aug				914,277	30,472	36	944,785		53	5	58	
470		Sep				915,055	30,473	36	945,564		53	5	58	
471		Oct				915,838	30,438	36	946,312		53	5	58	
472		Nov				916,613	30,477	36	947,126		53	5	58	
473		Dec				917,388	30,515	36	947,939		53	5	58	
474	2027	Jan				918,345	30,598	36	948,978		53	5	58	
475		Feb				918,938	30,593	36	949,566		53	5	58	
476		Mar				919,531	30,588	36	950,154		53	5	58	
477		Apr				920,134	30,602	36	950,771		53	5	58	
478		May				920,717	30,579	36	951,331		53	5	58	
479		Jun				921,301	30,556	36	951,892		53	5	58	
480		Jul				921,704	30,509	36	952,249		53	5	58	
481		Aug				922,468	30,510	36	953,014		53	5	58	
482		Sep				923,232	30,511	36	953,779		53	5	58	
483		Oct				923,999	30,475	36	954,510		53	5	58	
484		Nov				924,761	30,514	36	955,311		53	5	58	
485		Dec				925,523	30,554	36	956,112		53	5	58	
486	2028	Jan				926,464	30,636	36	957,136		53	5	58	
487		Feb				927,047	30,631	36	957,714		53	5	58	
488		Mar				927,629	30,625	36	958,290		53	5	58	
489		Apr				928,219	30,637	36	958,892		53	5	58	
490		May				928,793	30,614	36	959,443		53	5	58	
491		Jun				929,367	30,592	36	959,995		53	5	58	
492		Jul				929,760	30,545	36	960,341		53	5	58	
493		Aug				930,515	30,546	36	961,097		53	5	58	
494		Sep				931,270	30,547	36	961,853		53	5	58	
495		Oct				932,027	30,510	36	962,573		53	5	58	
496		Nov				932,782	30,549	36	963,367		53	5	58	
497		Dec				933,536	30,588	36	964,160		53	5	58	

	A	B	C	D	E	O	P	Q	R	S	T	U	V	W
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
395	MONTHLY FORECAST DATA													
396	Noncore - Electric Generation										Noncore	System-Wide		
397	EG-Dist. (<3MMThms)		EG-Trans. (<3MMThms)		EG-Dist. (>=3MMThms)		EG-Trans. (>=3MMThms)		EG (<3MMThms)	EG (>=3MMThms)	EG (Total)	Total	Total	
398	Forecast Number of Customers													
398	2021	Jan	80	3	5	10	83	15	98	156	901,443			
399		Feb	80	3	5	10	83	15	98	156	901,844			
400		Mar	80	3	5	10	83	15	98	156	902,312			
401		Apr	80	3	5	10	83	15	98	156	902,564			
402		May	80	3	5	10	83	15	98	156	902,815			
403		Jun	80	3	5	10	83	15	98	156	902,843			
404		Jul	80	3	5	10	83	15	98	156	903,324			
405		Aug	80	3	5	10	83	15	98	156	904,578			
406		Sep	80	3	5	10	83	15	98	156	905,072			
407		Oct	80	3	5	10	83	15	98	156	905,114			
408		Nov	80	3	5	10	83	15	98	156	905,841			
409		Dec	80	3	5	10	83	15	98	156	906,168			
410														
411	2022	Jan	80	3	5	10	83	15	98	156	907,493			
412		Feb	80	3	5	10	83	15	98	156	908,098			
413		Mar	80	3	5	10	83	15	98	156	908,703			
414		Apr	80	3	5	10	83	15	98	156	909,329			
415		May	80	3	5	10	83	15	98	156	909,914			
416		Jun	80	3	5	10	83	15	98	156	910,498			
417		Jul	80	3	5	10	83	15	98	156	910,876			
418		Aug	80	3	5	10	83	15	98	156	911,667			
419		Sep	80	3	5	10	83	15	98	156	912,458			
420		Oct	80	3	5	10	83	15	98	156	913,217			
421		Nov	80	3	5	10	83	15	98	156	914,041			
422		Dec	80	3	5	10	83	15	98	156	914,866			
423														
424	2023	Jan	80	3	5	10	83	15	98	156	915,915			
425		Feb	80	3	5	10	83	15	98	156	916,514			
426		Mar	80	3	5	10	83	15	98	156	917,113			
427		Apr	80	3	5	10	83	15	98	156	917,737			
428		May	80	3	5	10	83	15	98	156	918,311			
429		Jun	80	3	5	10	83	15	98	156	918,886			
430		Jul	80	3	5	10	83	15	98	156	919,254			
431		Aug	80	3	5	10	83	15	98	156	920,034			
432		Sep	80	3	5	10	83	15	98	156	920,814			
433		Oct	80	3	5	10	83	15	98	156	921,558			
434		Nov	80	3	5	10	83	15	98	156	922,376			
435		Dec	80	3	5	10	83	15	98	156	923,193			
436														
437	2024	Jan	80	3	5	10	83	15	98	156	924,233			
438		Feb	80	3	5	10	83	15	98	156	924,828			
439		Mar	80	3	5	10	83	15	98	156	925,424			
440		Apr	80	3	5	10	83	15	98	156	926,045			
441		May	80	3	5	10	83	15	98	156	926,616			
442		Jun	80	3	5	10	83	15	98	156	927,188			
443		Jul	80	3	5	10	83	15	98	156	927,554			
444		Aug	80	3	5	10	83	15	98	156	928,329			
445		Sep	80	3	5	10	83	15	98	156	929,105			
446		Oct	80	3	5	10	83	15	98	156	929,843			
447		Nov	80	3	5	10	83	15	98	156	930,655			
448		Dec	80	3	5	10	83	15	98	156	931,468			

	A	B	C	D	E	O	P	Q	R	S	T	U	V	W
1	2024 CAP: SDG&E Consolidated Gas Demand Forecast Summary (Mtherms)													
395	MONTHLY FORECAST DATA													
396	Noncore - Electric Generation													
397	Forecast Number of Customers													
449														
450	2025	Jan	80	3	5	10	83	15	98	156	932,499			
451		Feb	80	3	5	10	83	15	98	156	933,092			
452		Mar	80	3	5	10	83	15	98	156	933,685			
453		Apr	80	3	5	10	83	15	98	156	934,300			
454		May	80	3	5	10	83	15	98	156	934,872			
455		Jun	80	3	5	10	83	15	98	156	935,446			
456		Jul	80	3	5	10	83	15	98	156	935,808			
457		Aug	80	3	5	10	83	15	98	156	936,592			
458		Sep	80	3	5	10	83	15	98	156	937,376			
459		Oct	80	3	5	10	83	15	98	156	938,121			
460		Nov	80	3	5	10	83	15	98	156	938,943			
461		Dec	80	3	5	10	83	15	98	156	939,765			
462														
463	2026	Jan	80	3	5	10	83	15	98	156	940,808			
464		Feb	80	3	5	10	83	15	98	156	941,409			
465		Mar	80	3	5	10	83	15	98	156	942,010			
466		Apr	80	3	5	10	83	15	98	156	942,635			
467		May	80	3	5	10	83	15	98	156	943,211			
468		Jun	80	3	5	10	83	15	98	156	943,788			
469		Jul	80	3	5	10	83	15	98	156	944,160			
470		Aug	80	3	5	10	83	15	98	156	944,941			
471		Sep	80	3	5	10	83	15	98	156	945,720			
472		Oct	80	3	5	10	83	15	98	156	946,468			
473		Nov	80	3	5	10	83	15	98	156	947,282			
474		Dec	80	3	5	10	83	15	98	156	948,095			
475														
476	2027	Jan	80	3	5	10	83	15	98	156	949,134			
477		Feb	80	3	5	10	83	15	98	156	949,722			
478		Mar	80	3	5	10	83	15	98	156	950,310			
479		Apr	80	3	5	10	83	15	98	156	950,927			
480		May	80	3	5	10	83	15	98	156	951,487			
481		Jun	80	3	5	10	83	15	98	156	952,048			
482		Jul	80	3	5	10	83	15	98	156	952,405			
483		Aug	80	3	5	10	83	15	98	156	953,170			
484		Sep	80	3	5	10	83	15	98	156	953,935			
485		Oct	80	3	5	10	83	15	98	156	954,666			
486		Nov	80	3	5	10	83	15	98	156	955,467			
487		Dec	80	3	5	10	83	15	98	156	956,268			
488														
489	2028	Jan	80	3	5	10	83	15	98	156	957,292			
490		Feb	80	3	5	10	83	15	98	156	957,870			
491		Mar	80	3	5	10	83	15	98	156	958,446			
492		Apr	80	3	5	10	83	15	98	156	959,048			
493		May	80	3	5	10	83	15	98	156	959,599			
494		Jun	80	3	5	10	83	15	98	156	960,151			
495		Jul	80	3	5	10	83	15	98	156	960,497			
496		Aug	80	3	5	10	83	15	98	156	961,253			
497		Sep	80	3	5	10	83	15	98	156	962,009			
498		Oct	80	3	5	10	83	15	98	156	962,729			
499		Nov	80	3	5	10	83	15	98	156	963,523			
500		Dec	80	3	5	10	83	15	98	156	964,316			

SoCalGas Noncore Retail Gas Demand

SoCalGas Noncore Retail Gas Demand

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**SOCALGAS NONCORE COMMERCIAL
GAS DEMAND FORECAST**

SoCalGas 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 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 2010-2021.

B. Natural Gas Price

The natural gas prices used to forecast demand were based on the price of gas at the burner-tip for noncore commercial customers, 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 2021. 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 forecast through 2028 is based on Global Insight's November 2021 Regional forecast. Global Insight prepares regular regional employment forecast for California and the aggregated six largest counties' Metropolitan Statistical Area (MSA) in SoCalGas' service area. (The six counties – Kern, Los Angeles, Orange, Riverside, San Bernardino, and Ventura – account for about 85% of the service area's total population and employment). The historical employment data used was derived from the California Employment

Development Department (EDD) for the 12 counties served by SoCalGas. The monthly employment used in the model was generally by summing the employment data over the commercial and industrial NAICS codes.

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 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 historical data from 2010 through 2021. 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.

Noncore Commercial and Industrial Gas Transportation Rates

Gas Transp. Forecast from Rate Design (Nominal Cents per Therm)							Trans Option: "Class Average"			Trans Option: "Reservation"					
Year	PPP (¢/Thm)	Dcharge (\$/mo /mtr)	D1 (¢/Thm)	D2 (¢/Thm)	D3 (¢/Thm)	D4 (¢/Thm)	Tcharge (\$/mo /mtr)	T1 (¢/Thm)	T2 (¢/Thm)	Tcharge (¢/Thm/day per Mtr)	T1 (¢/Thm)	T2 (¢/Thm)	GHG Credit (¢/Thm)	CPI	BTS \$/Dth
2021	5.34	\$350	34.80	24.12	17.28	12.40	\$0	8.12	8.12	1.06	6.55	6.55	-4.529	1.000	0.401
2022	6.01	\$350	40.22	29.36	22.42	17.46	\$0	14.13	14.13	1.07	12.55	12.55	-10.911	1.050	0.368
2023	6.11	\$350	41.50	30.13	22.85	17.66	\$0	14.78	14.78	1.46	12.61	12.61	-10.911	1.071	0.547
2024	6.24	\$350	42.01	30.41	22.99	17.68	\$0	14.73	14.73	1.47	12.56	12.56	-10.911	1.093	0.547
2025	6.37	\$350	42.61	30.76	23.18	17.76	\$0	14.72	14.72	1.47	12.55	12.55	-10.911	1.116	0.547
2026	6.52	\$350	43.30	31.16	23.40	17.85	\$0	14.73	14.73	1.47	12.55	12.55	-10.911	1.140	0.547
2027	6.68	\$350	44.02	31.59	23.64	17.95	\$0	14.74	14.74	1.48	12.55	12.55	-10.911	1.167	0.547
2028	6.85	\$350	44.79	32.04	23.89	18.06	\$0	14.75	14.75	1.49	12.55	12.55	-10.911	1.194	0.547

2021 Noncore Commercial Weight of Usage by Tier

Distribution	95.67%
Transmission	4.33%

Tier	% of Group	% of Total
D1	26.76%	25.6%
D2	39.90%	38.2%
D3	15.88%	15.2%
D4	17.46%	16.7%
T1	99.05%	4.3%
T2	0.95%	0.0%
		100.0%

Example Calculation for 2025 August Noncore Commercial Gas Price

<p>Transportation Charge (¢/Thm): (including GHG)</p>	<p>36.143</p>	<p>= + (95.67% Ind Dist of total Ind) * { (26.76%*42.61 ¢/Thm + 39.90%* 30.76 ¢/Thm + 15.88%* 23.18 ¢/Thm + 17.46%* 17.76 ¢/Thm) } + (4.33% Ind Trans of total Ind) * { (99.05%* 14.72 ¢/Thm+0.95%* 14.72¢/Thm) } + PPP Surcharge (¢/Thm): 6.370¢/Thm, in 2025</p>
<p>Gas Commodity Price (¢/Thm):</p>	<p>39.473</p>	<p>= (market price of gas at the SoCalGas City Gate)</p>
<p>Customer's "Burner-Tip" Price:</p>	<p>75.616</p>	<p>= (36.143 + 39.473) ¢/Thm (Final Average nominal price)</p>
<p>CPI (Yr 2021 = 100)</p>	<p>1.118</p>	
<p>Real Price -2021 (¢/Thm)</p>	<p>67.611</p>	
<p>Real Price -2021 \$/Dth</p>	<p>6.761</p>	<p>(Final Average 2021 real price)</p>

Below are SAS base econometric forecast model results.

The AUTOREG Procedure

Maximum Likelihood Estimates			
SSE	577023.541	DFE	128
MSE	4508	Root MSE	67.14161
SBC	1683.32242	AIC	1635.80541
MAE	42.280703	AICC	1640.08887
MAPE	2.87197891	HQC	1655.11364
Log Likelihood	-801.90271	Transformed Regression R-Square	0.8652
Durbin-Watson	1.8998	Total R-Square	0.9219
		Observations	144

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	1351	254.4345	5.31	<.0001
HDD	1	1.2566	0.1547	8.12	<.0001
Employment	1	25.1886	28.0506	0.90	0.3709
Price	1	-10.9049	7.8618	-1.39	0.1678
Month_01	1	11.0762	23.3364	0.47	0.6359
Month_02	1	-131.2635	29.6171	-4.43	<.0001
Month_03	1	-35.7148	35.9421	-0.99	0.3223
Month_04	1	-148.1492	44.9382	-3.30	0.0013
Month_05	1	-178.6929	48.8993	-3.65	0.0004
Month_06	1	-280.4717	53.4428	-5.25	<.0001
Month_07	1	-297.4440	54.2184	-5.49	<.0001
Month_08	1	-241.5884	53.1966	-4.54	<.0001
Month_09	1	77.8645	52.6510	1.48	0.1416
Month_10	1	-51.8989	48.0246	-1.08	0.2819
Month_11	1	-140.2687	32.2760	-4.35	<.0001
AR1	1	-0.6514	0.0674	-9.67	<.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 (2022-2028)

Month	HDD	Employment	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-22	254.4	8.287	8.494	1	0	0	0	0	0	0	0	0	0	0	1,783.2
Feb-22	218.0	8.357	7.976	0	1	0	0	0	0	0	0	0	0	0	1,607.7
Mar-22	166.1	8.355	8.229	0	0	1	0	0	0	0	0	0	0	0	1,638.6
Apr-22	102.6	8.542	7.360	0	0	0	1	0	0	0	0	0	0	0	1,462.9
May-22	47.1	8.634	7.295	0	0	0	0	1	0	0	0	0	0	0	1,367.0
Jun-22	9.7	8.763	7.698	0	0	0	0	0	1	0	0	0	0	0	1,218.0
Jul-22	2.0	8.625	8.832	0	0	0	0	0	0	1	0	0	0	0	1,176.2
Aug-22	1.7	8.698	8.942	0	0	0	0	0	0	0	1	0	0	0	1,232.8
Sep-22	4.5	8.769	8.352	0	0	0	0	0	0	0	0	1	0	0	1,564.1
Oct-22	30.3	8.787	7.528	0	0	0	0	0	0	0	0	0	1	0	1,476.4
Nov-22	123.3	8.863	8.301	0	0	0	0	0	0	0	0	0	0	1	1,498.6
Dec-22	282.3	8.827	9.295	0	0	0	0	0	0	0	0	0	0	0	1,826.9
Jan-23	253.2	8.474	7.950	1	0	0	0	0	0	0	0	0	0	0	1,807.2
Feb-23	216.9	8.547	8.861	0	1	0	0	0	0	0	0	0	0	0	1,611.2
Mar-23	165.2	8.545	7.750	0	0	1	0	0	0	0	0	0	0	0	1,653.9
Apr-23	102.1	8.645	6.472	0	0	0	1	0	0	0	0	0	0	0	1,478.7
May-23	46.9	8.736	6.347	0	0	0	0	1	0	0	0	0	0	0	1,382.3
Jun-23	9.6	8.865	6.388	0	0	0	0	0	1	0	0	0	0	0	1,236.6
Jul-23	2.0	8.652	7.461	0	0	0	0	0	0	1	0	0	0	0	1,193.0
Aug-23	1.7	8.725	7.533	0	0	0	0	0	0	0	1	0	0	0	1,249.5
Sep-23	4.5	8.797	7.035	0	0	0	0	0	0	0	0	1	0	0	1,579.7
Oct-23	30.2	8.830	8.235	0	0	0	0	0	0	0	0	0	1	0	1,470.0
Nov-23	122.7	8.906	7.819	0	0	0	0	0	0	0	0	0	0	1	1,504.4
Dec-23	280.9	8.870	8.389	0	0	0	0	0	0	0	0	0	0	0	1,836.3
Jan-24	251.9	8.507	8.393	1	0	0	0	0	0	0	0	0	0	0	1,801.7
Feb-24	215.9	8.581	8.010	0	1	0	0	0	0	0	0	0	0	0	1,620.1
Mar-24	164.4	8.579	7.531	0	0	1	0	0	0	0	0	0	0	0	1,656.2
Apr-24	101.6	8.675	6.790	0	0	0	1	0	0	0	0	0	0	0	1,475.4
May-24	46.6	8.764	6.698	0	0	0	0	1	0	0	0	0	0	0	1,379.0
Jun-24	9.6	8.891	6.697	0	0	0	0	0	1	0	0	0	0	0	1,233.8
Jul-24	2.0	8.690	7.319	0	0	0	0	0	0	1	0	0	0	0	1,195.5
Aug-24	1.7	8.764	7.373	0	0	0	0	0	0	0	1	0	0	0	1,252.3
Sep-24	4.4	8.836	7.212	0	0	0	0	0	0	0	0	1	0	0	1,578.7
Oct-24	30.0	8.859	6.638	0	0	0	0	0	0	0	0	0	1	0	1,487.9
Nov-24	122.2	8.934	6.929	0	0	0	0	0	0	0	0	0	0	1	1,514.0
Dec-24	279.5	8.899	7.769	0	0	0	0	0	0	0	0	0	0	0	1,842.0

Base Forecast of Noncore Commercial Gas Demand (2022-2028)

Month	HDD	Employment	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-25	250.7	8.544	7.759	1	0	0	0	0	0	0	0	0	0	0	1,808.0
Feb-25	214.8	8.618	7.552	0	1	0	0	0	0	0	0	0	0	0	1,624.7
Mar-25	163.6	8.617	7.033	0	0	1	0	0	0	0	0	0	0	0	1,661.6
Apr-25	101.1	8.720	6.454	0	0	0	1	0	0	0	0	0	0	0	1,479.5
May-25	46.4	8.809	6.327	0	0	0	0	1	0	0	0	0	0	0	1,383.8
Jun-25	9.5	8.934	6.365	0	0	0	0	0	1	0	0	0	0	0	1,238.4
Jul-25	2.0	8.738	6.638	0	0	0	0	0	0	1	0	0	0	0	1,204.1
Aug-25	1.7	8.813	6.761	0	0	0	0	0	0	0	1	0	0	0	1,260.1
Sep-25	4.4	8.885	6.690	0	0	0	0	0	0	0	0	1	0	0	1,585.6
Oct-25	29.9	8.914	6.549	0	0	0	0	0	0	0	0	0	1	0	1,490.1
Nov-25	121.6	8.989	6.722	0	0	0	0	0	0	0	0	0	0	1	1,516.9
Dec-25	278.2	8.955	7.328	0	0	0	0	0	0	0	0	0	0	0	1,846.5
Jan-26	249.5	8.602	7.526	1	0	0	0	0	0	0	0	0	0	0	1,810.5
Feb-26	213.8	8.677	7.340	0	1	0	0	0	0	0	0	0	0	0	1,627.2
Mar-26	162.8	8.675	7.022	0	0	1	0	0	0	0	0	0	0	0	1,662.2
Apr-26	100.7	8.781	6.466	0	0	0	1	0	0	0	0	0	0	0	1,480.3
May-26	46.2	8.870	6.405	0	0	0	0	1	0	0	0	0	0	0	1,384.2
Jun-26	9.5	8.995	6.416	0	0	0	0	0	1	0	0	0	0	0	1,239.3
Jul-26	2.0	8.796	6.559	0	0	0	0	0	0	1	0	0	0	0	1,206.4
Aug-26	1.7	8.871	6.676	0	0	0	0	0	0	0	1	0	0	0	1,262.5
Sep-26	4.4	8.944	6.592	0	0	0	0	0	0	0	0	1	0	0	1,588.1
Oct-26	29.7	8.968	6.450	0	0	0	0	0	0	0	0	0	1	0	1,492.3
Nov-26	121.0	9.043	6.750	0	0	0	0	0	0	0	0	0	0	1	1,517.2
Dec-26	276.8	9.009	7.179	0	0	0	0	0	0	0	0	0	0	0	1,847.8
Jan-27	248.3	8.651	7.383	1	0	0	0	0	0	0	0	0	0	0	1,811.8
Feb-27	212.7	8.727	7.219	0	1	0	0	0	0	0	0	0	0	0	1,628.4
Mar-27	162.0	8.725	6.959	0	0	1	0	0	0	0	0	0	0	0	1,663.1
Apr-27	100.2	8.826	6.404	0	0	0	1	0	0	0	0	0	0	0	1,481.5
May-27	46.0	8.915	6.361	0	0	0	0	1	0	0	0	0	0	0	1,385.5
Jun-27	9.4	9.039	6.365	0	0	0	0	0	1	0	0	0	0	0	1,241.0
Jul-27	2.0	8.835	6.497	0	0	0	0	0	0	1	0	0	0	0	1,208.1
Aug-27	1.7	8.910	6.600	0	0	0	0	0	0	0	1	0	0	0	1,264.3
Sep-27	4.4	8.983	6.514	0	0	0	0	0	0	0	0	1	0	0	1,589.9
Oct-27	29.6	9.006	6.363	0	0	0	0	0	0	0	0	0	1	0	1,494.0
Nov-27	120.4	9.081	6.643	0	0	0	0	0	0	0	0	0	0	1	1,518.6
Dec-27	275.5	9.047	7.062	0	0	0	0	0	0	0	0	0	0	0	1,848.3

Base Forecast of Noncore Commercial Gas Demand (2022-2028)

Month	HDD	Employment	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-28	247.0	8.687	7.276	1	0	0	0	0	0	0	0	0	0	0	1,812.3
Feb-28	211.6	8.763	7.141	0	1	0	0	0	0	0	0	0	0	0	1,628.9
Mar-28	161.2	8.761	6.905	0	0	1	0	0	0	0	0	0	0	0	1,663.6
Apr-28	99.7	8.862	6.374	0	0	0	1	0	0	0	0	0	0	0	1,482.1
May-28	45.7	8.951	6.323	0	0	0	0	1	0	0	0	0	0	0	1,386.6
Jun-28	9.4	9.075	6.325	0	0	0	0	0	1	0	0	0	0	0	1,242.3
Jul-28	2.0	8.869	6.457	0	0	0	0	0	0	1	0	0	0	0	1,209.3
Aug-28	1.7	8.944	6.561	0	0	0	0	0	0	0	1	0	0	0	1,265.6
Sep-28	4.3	9.017	6.480	0	0	0	0	0	0	0	0	1	0	0	1,591.1
Oct-28	29.4	9.038	6.316	0	0	0	0	0	0	0	0	0	1	0	1,495.2
Nov-28	119.8	9.113	6.586	0	0	0	0	0	0	0	0	0	0	1	1,519.3
Dec-28	274.1	9.079	6.949	0	0	0	0	0	0	0	0	0	0	0	1,848.7

Noncore Commercial Annual Post-model Adjustment (2021-2028)

Year	Base Econometric Model Output (MDth)	Vernon Migration	EE Program (MDth)	Migration: core --> noncore	Final Average Year Forecast (MDth)	Adjustment %
2021	17,982.5	0.0	0.0	0.0	17,982.5	0.00%
2022	17,852.5	0.0	22.3	389.5	18,219.7	2.06%
2023	18,002.7	0.0	46.7	389.5	18,345.5	1.90%
2024	18,036.6	0.0	70.7	389.5	18,355.4	1.77%
2025	18,099.5	0.0	95.7	389.5	18,393.3	1.62%
2026	18,118.1	0.0	116.6	389.5	18,391.0	1.51%
2027	18,134.6	0.0	138.5	389.5	18,385.6	1.38%
2028	18,144.9	0.0	160.5	389.5	18,373.9	1.26%

Noncore Commercial Monthly Post-model Adjustment (2022-2028)

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-22	1,783.2	2.06%	1,819.9
Feb-22	1,607.7	2.06%	1,640.8
Mar-22	1,638.6	2.06%	1,672.3
Apr-22	1,462.9	2.06%	1,493.0
May-22	1,367.0	2.06%	1,395.1
Jun-22	1,218.0	2.06%	1,243.1
Jul-22	1,176.2	2.06%	1,200.4
Aug-22	1,232.8	2.06%	1,258.1
Sep-22	1,564.1	2.06%	1,596.3
Oct-22	1,476.4	2.06%	1,506.8
Nov-22	1,498.6	2.06%	1,529.4
Dec-22	1,826.9	2.06%	1,864.4
Jan-23	1,807.2	1.90%	1,841.6
Feb-23	1,611.2	1.90%	1,641.9
Mar-23	1,653.9	1.90%	1,685.4
Apr-23	1,478.7	1.90%	1,506.8
May-23	1,382.3	1.90%	1,408.6
Jun-23	1,236.6	1.90%	1,260.1
Jul-23	1,193.0	1.90%	1,215.7
Aug-23	1,249.5	1.90%	1,273.3
Sep-23	1,579.7	1.90%	1,609.7
Oct-23	1,470.0	1.90%	1,497.9
Nov-23	1,504.4	1.90%	1,533.0
Dec-23	1,836.3	1.90%	1,871.2
Jan-24	1,801.7	1.77%	1,833.6
Feb-24	1,620.1	1.77%	1,648.7
Mar-24	1,656.2	1.77%	1,685.5
Apr-24	1,475.4	1.77%	1,501.4
May-24	1,379.0	1.77%	1,403.3
Jun-24	1,233.8	1.77%	1,255.6
Jul-24	1,195.5	1.77%	1,216.6
Aug-24	1,252.3	1.77%	1,274.4
Sep-24	1,578.7	1.77%	1,606.6
Oct-24	1,487.9	1.77%	1,514.2
Nov-24	1,514.0	1.77%	1,540.8
Dec-24	1,842.0	1.77%	1,874.6
Jan-25	1,808.0	1.62%	1,837.4
Feb-25	1,624.7	1.62%	1,651.1
Mar-25	1,661.6	1.62%	1,688.6
Apr-25	1,479.5	1.62%	1,503.6
May-25	1,383.8	1.62%	1,406.3
Jun-25	1,238.4	1.62%	1,258.5
Jul-25	1,204.1	1.62%	1,223.7
Aug-25	1,260.1	1.62%	1,280.6
Sep-25	1,585.6	1.62%	1,611.3
Oct-25	1,490.1	1.62%	1,514.3
Nov-25	1,516.9	1.62%	1,541.6
Dec-25	1,846.5	1.62%	1,876.5

Noncore Commercial Monthly Post-model Adjustment (2022-2028)

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-26	1,810.5	1.51%	1,837.8
Feb-26	1,627.2	1.51%	1,651.7
Mar-26	1,662.2	1.51%	1,687.2
Apr-26	1,480.3	1.51%	1,502.6
May-26	1,384.2	1.51%	1,405.1
Jun-26	1,239.3	1.51%	1,258.0
Jul-26	1,206.4	1.51%	1,224.6
Aug-26	1,262.5	1.51%	1,281.5
Sep-26	1,588.1	1.51%	1,612.0
Oct-26	1,492.3	1.51%	1,514.8
Nov-26	1,517.2	1.51%	1,540.1
Dec-26	1,847.8	1.51%	1,875.6
Jan-27	1,811.8	1.38%	1,836.8
Feb-27	1,628.4	1.38%	1,651.0
Mar-27	1,663.1	1.38%	1,686.1
Apr-27	1,481.5	1.38%	1,502.0
May-27	1,385.5	1.38%	1,404.7
Jun-27	1,241.0	1.38%	1,258.1
Jul-27	1,208.1	1.38%	1,224.8
Aug-27	1,264.3	1.38%	1,281.8
Sep-27	1,589.9	1.38%	1,611.9
Oct-27	1,494.0	1.38%	1,514.7
Nov-27	1,518.6	1.38%	1,539.6
Dec-27	1,848.3	1.38%	1,873.9
Jan-28	1,812.3	1.26%	1,835.1
Feb-28	1,628.9	1.26%	1,649.4
Mar-28	1,663.6	1.26%	1,684.6
Apr-28	1,482.1	1.26%	1,500.8
May-28	1,386.6	1.26%	1,404.1
Jun-28	1,242.3	1.26%	1,257.9
Jul-28	1,209.3	1.26%	1,224.6
Aug-28	1,265.6	1.26%	1,281.6
Sep-28	1,591.1	1.26%	1,611.2
Oct-28	1,495.2	1.26%	1,514.1
Nov-28	1,519.3	1.26%	1,538.5
Dec-28	1,848.7	1.26%	1,872.0

**SOCALGAS NONCORE INDUSTRIAL NON-REFINERY
GAS DEMAND FORECAST**

SoCalGas 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 2010-2021.

B. Natural Gas Price

The natural gas prices used to forecast demand were based on the price of gas at the burner-tip for noncore industrial non-refinery customers, 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 2021. 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 forecast through 2028 is based on Global Insight's November 2021 Regional forecast. Global Insight prepares regular regional employment forecast for California and the aggregated six largest counties' Metropolitan Statistical Area (MSA) in SoCalGas' service area. (The six counties – Kern, Los Angeles, Orange, Riverside, San Bernardino, and

Ventura – account for about 85% of the service area’s total population and employment). The historical employment data used was derived from the California Employment Development Department (EDD) for the 12 counties served by SoCalGas. The monthly employment used in the model was generally by summing the employment data over the commercial and industrial NAICS codes.

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 historical data from 2010 through 2021. 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.

Noncore Commercial and Industrial Gas Transportation Rates

Gas Transp. Forecast from Rate Design (Nominal Cents per Therm)							Trans Option: "Class Average"			Trans Option: "Reservation"					
Year	PPP (¢/Thm)	Dcharge (\$/mo /mtr)	D1 (¢/Thm)	D2 (¢/Thm)	D3 (¢/Thm)	D4 (¢/Thm)	Tcharge (\$/mo /mtr)	T1 (¢/Thm)	T2 (¢/Thm)	Tcharge (¢/Thm/day per Mtr)	T1 (¢/Thm)	T2 (¢/Thm)	GHG Credit (¢/Thm)	CPI	BTS \$/Dth
2021	5.34	\$350	34.80	24.12	17.28	12.40	\$0	8.12	8.12	1.06	6.55	6.55	-4.529	1.000	0.401
2022	6.01	\$350	40.22	29.36	22.42	17.46	\$0	14.13	14.13	1.07	12.55	12.55	-10.911	1.050	0.368
2023	6.11	\$350	41.50	30.13	22.85	17.66	\$0	14.78	14.78	1.46	12.61	12.61	-10.911	1.071	0.547
2024	6.24	\$350	42.01	30.41	22.99	17.68	\$0	14.73	14.73	1.47	12.56	12.56	-10.911	1.093	0.547
2025	6.37	\$350	42.61	30.76	23.18	17.76	\$0	14.72	14.72	1.47	12.55	12.55	-10.911	1.116	0.547
2026	6.52	\$350	43.30	31.16	23.40	17.85	\$0	14.73	14.73	1.47	12.55	12.55	-10.911	1.140	0.547
2027	6.68	\$350	44.02	31.59	23.64	17.95	\$0	14.74	14.74	1.48	12.55	12.55	-10.911	1.167	0.547
2028	6.85	\$350	44.79	32.04	23.89	18.06	\$0	14.75	14.75	1.49	12.55	12.55	-10.911	1.194	0.547

2021 Noncore Industrial Non-Refinery Weight of Usage by Tier

Distribution	94.81%
Transmission	5.19%

Tier	% of Group	% of Total
D1	15.27%	14.5%
D2	28.95%	27.4%
D3	17.40%	16.5%
D4	38.38%	36.4%
T1	31.69%	1.6%
T2	68.31%	3.5%
		100.0%

Example Calculation for 2025 August Noncore Industrial Non-Refinery Gas Price

<p>Transportation Charge (¢/Thm): (including GHG)</p>	<p>32.029</p>	<p>= + (94.81% Ind Dist of total Ind) * { (15.27%*42.61 ¢/Thm + 28.95%* 30.76 ¢/Thm + 17.40%* 23.18 ¢/Thm + 38.38%* 17.76 ¢/Thm) } + (5.19% Ind Trans of total Ind) * { (31.69%* 14.72 ¢/Thm+68.31%* 14.72¢/Thm) } + PPP Surcharge (¢/Thm): 6.370¢/Thm, in 2025</p>
<p>Gas Commodity Price (¢/Thm):</p>	<p>39.473</p>	<p>= (market price of gas at the SoCalGas City Gate)</p>
<p>Customer's "Burner-Tip" Price:</p>	<p>71.502</p>	<p>= (32.029 + 39.473) ¢/Thm (Final Average nominal price)</p>
<p>CPI (Yr 2021 = 100)</p>	<p>1.118</p>	
<p>Real Price -2021 (¢/Thm)</p>	<p>63.932</p>	
<p>Real Price -2021 \$/Dth</p>	<p>6.393</p>	<p>(Final Average 2021 real price)</p>

Below are SAS base econometric forecast model results.

The AUTOREG Procedure

Maximum Likelihood Estimates			
SSE	1812775.43	DFE	128
MSE	14162	Root MSE	119.00550
SBC	1847.89544	AIC	1800.37843
MAE	85.2368364	AICC	1804.66189
MAPE	1.98978163	HQC	1819.68666
Log Likelihood	-884.18921	Transformed Regression R-Square	0.8416
Durbin-Watson	1.9781	Total R-Square	0.8989
		Observations	144

Parameter Estimates					
Variable	DF	Estimate	Standard Error	t Value	Approx Pr > t
Intercept	1	1095	518.3556	2.11	0.0366
HDD	1	0.4092	0.2799	1.46	0.1462
Employment	1	3.7778	0.6893	5.48	<.0001
Price	1	-16.6990	11.8088	-1.41	0.1598
Month_01	1	273.4393	41.5605	6.58	<.0001
Month_02	1	-18.8902	51.6922	-0.37	0.7154
Month_03	1	364.9462	61.2643	5.96	<.0001
Month_04	1	429.8263	76.0570	5.65	<.0001
Month_05	1	520.7200	83.3136	6.25	<.0001
Month_06	1	371.3747	91.9600	4.04	<.0001
Month_07	1	792.8907	93.0174	8.52	<.0001
Month_08	1	1150	92.4392	12.44	<.0001
Month_09	1	836.0985	91.7296	9.11	<.0001
Month_10	1	511.1468	85.2532	6.00	<.0001
Month_11	1	149.8781	58.5724	2.56	0.0117
AR1	1	-0.4972	0.0794	-6.26	<.0001

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

Base Forecast of SoCalGas Noncore Industrial Non-Refinery Gas Demand (2022-2028)

Month	HDD	Employment	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-22	254.4	668.953	8.132	1	0	0	0	0	0	0	0	0	0	0	3,937.7
Feb-22	218.0	673.087	7.615	0	1	0	0	0	0	0	0	0	0	0	3,617.6
Mar-22	166.1	673.250	7.868	0	0	1	0	0	0	0	0	0	0	0	3,958.1
Apr-22	102.6	670.407	6.999	0	0	0	1	0	0	0	0	0	0	0	3,991.6
May-22	47.1	678.298	6.935	0	0	0	0	1	0	0	0	0	0	0	4,086.1
Jun-22	9.7	686.310	7.338	0	0	0	0	0	1	0	0	0	0	0	3,942.7
Jul-22	2.0	679.870	8.473	0	0	0	0	0	0	1	0	0	0	0	4,316.7
Aug-22	1.7	681.385	8.584	0	0	0	0	0	0	0	1	0	0	0	4,676.6
Sep-22	4.5	681.279	7.994	0	0	0	0	0	0	0	0	1	0	0	4,373.4
Oct-22	30.3	687.538	7.170	0	0	0	0	0	0	0	0	0	1	0	4,096.3
Nov-22	123.3	687.315	7.944	0	0	0	0	0	0	0	0	0	0	1	3,759.2
Dec-22	282.3	687.104	8.938	0	0	0	0	0	0	0	0	0	0	0	3,656.9
Jan-23	253.2	680.148	7.578	1	0	0	0	0	0	0	0	0	0	0	3,914.9
Feb-23	216.9	684.485	8.490	0	1	0	0	0	0	0	0	0	0	0	3,608.9
Mar-23	165.2	684.692	7.379	0	0	1	0	0	0	0	0	0	0	0	3,990.9
Apr-23	102.1	680.541	6.102	0	0	0	1	0	0	0	0	0	0	0	4,035.6
May-23	46.9	688.821	5.978	0	0	0	0	1	0	0	0	0	0	0	4,137.2
Jun-23	9.6	697.006	6.019	0	0	0	0	0	1	0	0	0	0	0	4,002.9
Jul-23	2.0	691.845	7.092	0	0	0	0	0	0	1	0	0	0	0	4,383.9
Aug-23	1.7	693.311	7.165	0	0	0	0	0	0	0	1	0	0	0	4,744.8
Sep-23	4.5	693.175	6.668	0	0	0	0	0	0	0	0	1	0	0	4,440.2
Oct-23	30.2	689.041	7.868	0	0	0	0	0	0	0	0	0	1	0	4,090.1
Nov-23	122.7	688.821	7.453	0	0	0	0	0	0	0	0	0	0	1	3,772.8
Dec-23	280.9	688.575	8.024	0	0	0	0	0	0	0	0	0	0	0	3,677.2
Jan-24	251.9	676.493	8.021	1	0	0	0	0	0	0	0	0	0	0	3,893.2
Feb-24	215.9	680.795	7.639	0	1	0	0	0	0	0	0	0	0	0	3,608.7
Mar-24	164.4	681.004	7.160	0	0	1	0	0	0	0	0	0	0	0	3,980.3
Apr-24	101.6	675.396	6.420	0	0	0	1	0	0	0	0	0	0	0	4,010.6
May-24	46.6	683.556	6.328	0	0	0	0	1	0	0	0	0	0	0	4,111.4
Jun-24	9.6	691.607	6.328	0	0	0	0	0	1	0	0	0	0	0	3,977.3
Jul-24	2.0	686.359	6.951	0	0	0	0	0	0	1	0	0	0	0	4,365.5
Aug-24	1.7	687.768	7.005	0	0	0	0	0	0	0	1	0	0	0	4,726.6
Sep-24	4.4	687.665	6.845	0	0	0	0	0	0	0	0	1	0	0	4,416.4
Oct-24	30.0	683.615	6.272	0	0	0	0	0	0	0	0	0	1	0	4,096.2
Nov-24	122.2	683.377	6.564	0	0	0	0	0	0	0	0	0	0	1	3,766.8
Dec-24	279.5	683.077	7.404	0	0	0	0	0	0	0	0	0	0	0	3,666.2

Base Forecast of SoCalGas Noncore Industrial Non-Refinery Gas Demand (2022-2028)

Month	HDD	Employment	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-25	250.7	670.383	7.386	1	0	0	0	0	0	0	0	0	0	0	3,880.2
Feb-25	214.8	674.633	7.181	0	1	0	0	0	0	0	0	0	0	0	3,592.6
Mar-25	163.6	674.841	6.662	0	0	1	0	0	0	0	0	0	0	0	3,965.0
Apr-25	101.1	668.385	6.083	0	0	0	1	0	0	0	0	0	0	0	3,989.6
May-25	46.4	676.382	5.957	0	0	0	0	1	0	0	0	0	0	0	4,090.4
Jun-25	9.5	684.289	5.995	0	0	0	0	0	1	0	0	0	0	0	3,955.2
Jul-25	2.0	677.762	6.269	0	0	0	0	0	0	1	0	0	0	0	4,344.4
Aug-25	1.7	679.155	6.393	0	0	0	0	0	0	0	1	0	0	0	4,704.2
Sep-25	4.4	679.091	6.323	0	0	0	0	0	0	0	0	1	0	0	4,392.7
Oct-25	29.9	674.668	6.183	0	0	0	0	0	0	0	0	0	1	0	4,063.8
Nov-25	121.6	674.399	6.356	0	0	0	0	0	0	0	0	0	0	1	3,736.2
Dec-25	278.2	674.051	6.963	0	0	0	0	0	0	0	0	0	0	0	3,638.9
Jan-26	249.5	662.324	7.153	1	0	0	0	0	0	0	0	0	0	0	3,853.1
Feb-26	213.8	666.507	6.968	0	1	0	0	0	0	0	0	0	0	0	3,565.1
Mar-26	162.8	666.717	6.650	0	0	1	0	0	0	0	0	0	0	0	3,934.2
Apr-26	100.7	661.968	6.094	0	0	0	1	0	0	0	0	0	0	0	3,964.9
May-26	46.2	669.755	6.035	0	0	0	0	1	0	0	0	0	0	0	4,064.0
Jun-26	9.5	677.549	6.046	0	0	0	0	0	1	0	0	0	0	0	3,928.8
Jul-26	2.0	672.590	6.190	0	0	0	0	0	0	1	0	0	0	0	4,326.2
Aug-26	1.7	673.993	6.307	0	0	0	0	0	0	0	1	0	0	0	4,686.2
Sep-26	4.4	673.945	6.224	0	0	0	0	0	0	0	0	1	0	0	4,374.9
Oct-26	29.7	671.355	6.082	0	0	0	0	0	0	0	0	0	1	0	4,052.9
Nov-26	121.0	671.071	6.383	0	0	0	0	0	0	0	0	0	0	1	3,722.9
Dec-26	276.8	670.696	6.813	0	0	0	0	0	0	0	0	0	0	0	3,628.2
Jan-27	248.3	660.221	7.009	1	0	0	0	0	0	0	0	0	0	0	3,847.1
Feb-27	212.7	664.385	6.845	0	1	0	0	0	0	0	0	0	0	0	3,558.7
Mar-27	162.0	664.607	6.587	0	0	1	0	0	0	0	0	0	0	0	3,926.9
Apr-27	100.2	660.904	6.032	0	0	0	1	0	0	0	0	0	0	0	3,961.8
May-27	46.0	668.544	5.990	0	0	0	0	1	0	0	0	0	0	0	4,060.0
Jun-27	9.4	676.301	5.995	0	0	0	0	0	1	0	0	0	0	0	3,925.0
Jul-27	2.0	671.998	6.127	0	0	0	0	0	0	1	0	0	0	0	4,325.0
Aug-27	1.7	673.406	6.231	0	0	0	0	0	0	0	1	0	0	0	4,685.2
Sep-27	4.4	673.360	6.145	0	0	0	0	0	0	0	0	1	0	0	4,374.0
Oct-27	29.6	670.269	5.996	0	0	0	0	0	0	0	0	0	1	0	4,050.2
Nov-27	120.4	669.976	6.276	0	0	0	0	0	0	0	0	0	0	1	3,720.3
Dec-27	275.5	669.590	6.696	0	0	0	0	0	0	0	0	0	0	0	3,625.4

Base Forecast of SoCalGas Noncore Industrial Non-Refinery Gas Demand (2022-2028)

Month	HDD	Employment	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-28	247.0	657.843	6.902	1	0	0	0	0	0	0	0	0	0	0	3,839.4
Feb-28	211.6	661.986	6.767	0	1	0	0	0	0	0	0	0	0	0	3,550.5
Mar-28	161.2	662.210	6.532	0	0	1	0	0	0	0	0	0	0	0	3,918.5
Apr-28	99.7	657.660	6.001	0	0	0	1	0	0	0	0	0	0	0	3,949.8
May-28	45.7	665.196	5.951	0	0	0	0	1	0	0	0	0	0	0	4,047.9
Jun-28	9.4	672.908	5.954	0	0	0	0	0	1	0	0	0	0	0	3,912.8
Jul-28	2.0	667.981	6.087	0	0	0	0	0	0	1	0	0	0	0	4,310.5
Aug-28	1.7	669.410	6.192	0	0	0	0	0	0	0	1	0	0	0	4,670.8
Sep-28	4.3	669.380	6.111	0	0	0	0	0	0	0	0	1	0	0	4,359.5
Oct-28	29.4	666.274	5.948	0	0	0	0	0	0	0	0	0	1	0	4,035.8
Nov-28	119.8	665.967	6.218	0	0	0	0	0	0	0	0	0	0	1	3,705.9
Dec-28	274.1	665.575	6.583	0	0	0	0	0	0	0	0	0	0	0	3,611.6

SoCalGas Noncore Industrial Non-Refinery Annual Post-model Adjustment (2021-2028)

Year	Base Econometric Model Output (MDth)	Vernon Migration	EE Program (MDth)	Migration: core --> noncore	Final Average Year Forecast (MDth)	Adjustment %
2021	48,478.3	0.0	0.0	0.0	48,478.3	0.00%
2022	48,412.9	28.7	69.8	495.7	48,810.1	0.82%
2023	48,799.3	57.4	146.6	495.7	49,091.1	0.60%
2024	48,619.1	86.1	221.7	495.7	48,807.1	0.39%
2025	48,353.2	114.8	300.0	495.7	48,434.1	0.17%
2026	48,101.3	143.5	365.7	495.7	48,088.0	-0.03%
2027	48,059.5	172.2	434.5	495.7	47,948.7	-0.23%
2028	47,913.0	200.8	503.3	495.7	47,704.6	-0.43%

SoCalGas Noncore Industrial Non-Refinery Monthly Post-model Adjustment (2022-2028)

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-22	3,937.7	0.82%	3,970.0
Feb-22	3,617.6	0.82%	3,647.3
Mar-22	3,958.1	0.82%	3,990.6
Apr-22	3,991.6	0.82%	4,024.4
May-22	4,086.1	0.82%	4,119.6
Jun-22	3,942.7	0.82%	3,975.0
Jul-22	4,316.7	0.82%	4,352.1
Aug-22	4,676.6	0.82%	4,715.0
Sep-22	4,373.4	0.82%	4,409.3
Oct-22	4,096.3	0.82%	4,129.9
Nov-22	3,759.2	0.82%	3,790.1
Dec-22	3,656.9	0.82%	3,686.9
Jan-23	3,914.9	0.60%	3,938.3
Feb-23	3,608.9	0.60%	3,630.5
Mar-23	3,990.9	0.60%	4,014.8
Apr-23	4,035.6	0.60%	4,059.7
May-23	4,137.2	0.60%	4,162.0
Jun-23	4,002.9	0.60%	4,026.8
Jul-23	4,383.9	0.60%	4,410.1
Aug-23	4,744.8	0.60%	4,773.2
Sep-23	4,440.2	0.60%	4,466.7
Oct-23	4,090.1	0.60%	4,114.5
Nov-23	3,772.8	0.60%	3,795.4
Dec-23	3,677.2	0.60%	3,699.2
Jan-24	3,893.2	0.39%	3,908.2
Feb-24	3,608.7	0.39%	3,622.7
Mar-24	3,980.3	0.39%	3,995.7
Apr-24	4,010.6	0.39%	4,026.1
May-24	4,111.4	0.39%	4,127.3
Jun-24	3,977.3	0.39%	3,992.7
Jul-24	4,365.5	0.39%	4,382.4
Aug-24	4,726.6	0.39%	4,744.8
Sep-24	4,416.4	0.39%	4,433.5
Oct-24	4,096.2	0.39%	4,112.0
Nov-24	3,766.8	0.39%	3,781.4
Dec-24	3,666.2	0.39%	3,680.4
Jan-25	3,880.2	0.17%	3,886.7
Feb-25	3,592.6	0.17%	3,598.7
Mar-25	3,965.0	0.17%	3,971.6
Apr-25	3,989.6	0.17%	3,996.3
May-25	4,090.4	0.17%	4,097.2
Jun-25	3,955.2	0.17%	3,961.8
Jul-25	4,344.4	0.17%	4,351.7
Aug-25	4,704.2	0.17%	4,712.1
Sep-25	4,392.7	0.17%	4,400.1
Oct-25	4,063.8	0.17%	4,070.6
Nov-25	3,736.2	0.17%	3,742.4
Dec-25	3,638.9	0.17%	3,645.0

SoCalGas Noncore Industrial Non-Refinery Monthly Post-model Adjustment (2022-2028)

Month	Base Econometric Model Output (Mdth)	Average Year Adjustment %	Final Average Year Forecast (Mdth)
Jan-26	3,853.1	-0.03%	3,852.1
Feb-26	3,565.1	-0.03%	3,564.1
Mar-26	3,934.2	-0.03%	3,933.1
Apr-26	3,964.9	-0.03%	3,963.8
May-26	4,064.0	-0.03%	4,062.8
Jun-26	3,928.8	-0.03%	3,927.8
Jul-26	4,326.2	-0.03%	4,325.0
Aug-26	4,686.2	-0.03%	4,684.9
Sep-26	4,374.9	-0.03%	4,373.7
Oct-26	4,052.9	-0.03%	4,051.8
Nov-26	3,722.9	-0.03%	3,721.8
Dec-26	3,628.2	-0.03%	3,627.2
Jan-27	3,847.1	-0.23%	3,838.2
Feb-27	3,558.7	-0.23%	3,550.5
Mar-27	3,926.9	-0.23%	3,917.9
Apr-27	3,961.8	-0.23%	3,952.6
May-27	4,060.0	-0.23%	4,050.7
Jun-27	3,925.0	-0.23%	3,915.9
Jul-27	4,325.0	-0.23%	4,315.0
Aug-27	4,685.2	-0.23%	4,674.4
Sep-27	4,374.0	-0.23%	4,363.9
Oct-27	4,050.2	-0.23%	4,040.8
Nov-27	3,720.3	-0.23%	3,711.7
Dec-27	3,625.4	-0.23%	3,617.0
Jan-28	3,839.4	-0.43%	3,822.7
Feb-28	3,550.5	-0.43%	3,535.0
Mar-28	3,918.5	-0.43%	3,901.4
Apr-28	3,949.8	-0.43%	3,932.6
May-28	4,047.9	-0.43%	4,030.3
Jun-28	3,912.8	-0.43%	3,895.8
Jul-28	4,310.5	-0.43%	4,291.7
Aug-28	4,670.8	-0.43%	4,650.5
Sep-28	4,359.5	-0.43%	4,340.6
Oct-28	4,035.8	-0.43%	4,018.3
Nov-28	3,705.9	-0.43%	3,689.7
Dec-28	3,611.6	-0.43%	3,595.9

**SOCALGAS NONCORE REFINERY
NON-COGENERATION AND COGENERATION
GAS DEMAND FORECAST**

SoCalGas 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 2021 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:

$$\text{LN(Ref_MDth/d)} = 5.7598439 + (-0.0435752) \times \text{LN(G/P)}$$

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-2021.

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:

$$\begin{aligned} \text{LN}[\text{Ref_MDth/d}] &= 5.7598439 + (-0.0435752) \times \text{LN}(5.49350 / 12.27700) \\ \text{LN}[\text{Ref_MDth/d}] &= 5.7948854 \end{aligned}$$

$$\begin{aligned} \text{Ref_MDth} &= (31 \text{ days}) \times (\text{EXP}[5.7948854]) \\ &= (31 \text{ days}) \times (328.61452 \text{ MDth/d}) \\ &= (10,187.1 \text{ MDth}) \end{aligned}$$

This total refinery gas demand was “split” between G-30 and G-50 load using the 2021 monthly proportions that the G-30 load represented relative to the total refinery load. The table below provides these proportions.

Month	2021 G-30 % of total Refinery
Jan	83.969%
Feb	79.660%
Mar	79.009%
Apr	78.973%
May	76.545%
Jun	78.816%
Jul	78.048%
Aug	79.134%
Sep	78.899%
Oct	81.714%
Nov	81.193%
Dec	82.512%

Based on the August 2024 example above, the total refinery gas demand is split into G-30 and G-50 values:

$$\begin{aligned} \text{Ref_G-30} &= (8,061.5 \text{ MDth}) = (10,187.1 \text{ MDth}) \times (79.134\%), \text{ and} \\ \text{Ref_G-50} &= (2,125.6 \text{ MDth}) = (10,187.1 \text{ MDth}) \times (20.866\%) \end{aligned}$$

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 (2021-2028)

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-21	83.97%	31	1	10,665.1	344.0	5.8407	-0.7184	4.9214	10.0949
Feb-21	79.66%	28	2	8,252.0	294.7	5.6860	-0.8974	4.6061	11.2993
Mar-21	79.01%	31	3	10,887.2	351.2	5.8614	-0.8497	4.6108	10.7847
Apr-21	78.97%	30	4	9,895.2	329.8	5.7986	-0.8251	4.0731	9.2956
May-21	76.55%	31	5	9,469.0	305.5	5.7218	-0.6963	4.4966	9.0219
Jun-21	78.82%	30	6	9,722.6	324.1	5.7810	-0.7594	4.8672	10.4015
Jul-21	78.05%	31	7	8,978.2	289.6	5.6686	-0.8298	5.1333	11.7701
Aug-21	79.13%	31	8	10,091.5	325.5	5.7855	-0.8178	5.3647	12.1533
Sep-21	78.90%	30	9	9,668.9	322.3	5.7755	-0.9622	5.3540	14.0146
Oct-21	81.71%	31	10	10,446.2	337.0	5.8200	-0.8830	6.6103	15.9854
Nov-21	81.19%	30	11	9,830.8	327.7	5.7921	-0.7000	7.2261	14.5511
Dec-21	82.51%	31	12	10,530.6	339.7	5.8281	-0.5271	7.3680	12.4818
Jan-22	83.97%	31	1	10,116.6	326.3	5.7879	-0.6448	6.3534	12.1071
Feb-22	79.66%	28	2	9,195.9	328.4	5.7943	-0.7909	5.7978	12.7865
Mar-22	79.01%	31	3	10,111.0	326.2	5.7874	-0.6323	6.0679	11.4194
Apr-22	78.97%	30	4	9,798.7	326.6	5.7888	-0.6647	5.1669	10.0442
May-22	76.55%	31	5	10,149.5	327.4	5.7912	-0.7193	5.0956	10.4617
Jun-22	78.82%	30	6	9,844.2	328.1	5.7934	-0.7709	5.5438	11.9843
Jul-22	78.05%	31	7	10,119.8	326.4	5.7883	-0.6521	6.7462	12.9502
Aug-22	79.13%	31	8	10,128.6	326.7	5.7891	-0.6721	6.8802	13.4741
Sep-22	78.90%	30	9	9,879.2	329.3	5.7970	-0.8525	6.2683	14.7020
Oct-22	81.71%	31	10	10,334.2	333.4	5.8092	-1.1333	5.4217	16.8386
Nov-22	81.19%	30	11	9,917.9	330.6	5.8009	-0.9423	6.2501	16.0363
Dec-22	82.51%	31	12	10,156.0	327.6	5.7918	-0.7341	7.3270	15.2669
Jan-23	83.97%	31	1	10,098.9	325.8	5.7862	-0.6048	5.9099	10.8204
Feb-23	79.66%	28	2	9,083.8	324.4	5.7820	-0.5095	6.8655	11.4276
Mar-23	79.01%	31	3	10,089.5	325.5	5.7853	-0.5835	5.6945	10.2059
Apr-23	78.97%	30	4	9,824.8	327.5	5.7915	-0.7257	4.3448	8.9768
May-23	76.55%	31	5	10,184.4	328.5	5.7946	-0.7982	4.2087	9.3499
Jun-23	78.82%	30	6	9,907.4	330.2	5.7998	-0.9179	4.2774	10.7107
Jul-23	78.05%	31	7	10,165.7	327.9	5.7928	-0.7560	5.4344	11.5740
Aug-23	79.13%	31	8	10,175.4	328.2	5.7937	-0.7779	5.5316	12.0422
Sep-23	78.90%	30	9	9,927.6	330.9	5.8019	-0.9647	5.0074	13.1396
Oct-23	81.71%	31	10	10,214.8	329.5	5.7976	-0.8667	6.3259	15.0491
Nov-23	81.19%	30	11	9,895.0	329.8	5.7986	-0.8891	5.8909	14.3321
Dec-23	82.51%	31	12	10,157.1	327.6	5.7919	-0.7367	6.5317	13.6444
Jan-24	83.97%	31	1	10,063.4	324.6	5.7827	-0.5239	6.5328	11.0314
Feb-24	79.66%	29	2	9,464.4	326.4	5.7880	-0.6460	6.1065	11.6505
Mar-24	79.01%	31	3	10,105.7	326.0	5.7869	-0.6201	5.5969	10.4049
Apr-24	78.97%	30	4	9,790.0	326.3	5.7879	-0.6442	4.8055	9.1518
May-24	76.55%	31	5	10,143.9	327.2	5.7906	-0.7068	4.7014	9.5322
Jun-24	78.82%	30	6	9,872.7	329.1	5.7963	-0.8374	4.7265	10.9195
Jul-24	78.05%	31	7	10,175.9	328.3	5.7938	-0.7790	5.4143	11.7996
Aug-24	79.13%	31	8	10,187.1	328.6	5.7949	-0.8042	5.4935	12.2770
Sep-24	78.90%	30	9	9,909.1	330.3	5.8000	-0.9219	5.3285	13.3958
Oct-24	81.71%	31	10	10,353.9	334.0	5.8111	-1.1769	4.7289	15.3425
Nov-24	81.19%	30	11	9,969.3	332.3	5.8061	-1.0607	5.0585	14.6116
Dec-24	82.51%	31	12	10,202.9	329.1	5.7964	-0.8399	6.0058	13.9105
Jan-25	83.97%	31	1	10,106.8	326.0	5.7870	-0.6226	5.9850	11.1545
Feb-25	79.66%	28	2	9,166.8	327.4	5.7911	-0.7183	5.7440	11.7804
Mar-25	79.01%	31	3	10,144.8	327.3	5.7907	-0.7087	5.1791	10.5210
Apr-25	78.97%	30	4	9,818.2	327.3	5.7908	-0.7103	4.5483	9.2539
May-25	76.55%	31	5	10,177.7	328.3	5.7940	-0.7832	4.4043	9.6385
Jun-25	78.82%	30	6	9,901.2	330.0	5.7992	-0.9035	4.4733	11.0413
Jul-25	78.05%	31	7	10,235.8	330.2	5.7997	-0.9137	4.7850	11.9313
Aug-25	79.13%	31	8	10,238.9	330.3	5.8000	-0.9207	4.9438	12.4140
Sep-25	78.90%	30	9	9,952.3	331.7	5.8044	-1.0216	4.8765	13.5453
Oct-25	81.71%	31	10	10,356.8	334.1	5.8114	-1.1834	4.7507	15.5137
Nov-25	81.19%	30	11	9,983.1	332.8	5.8075	-1.0926	4.9546	14.7746
Dec-25	82.51%	31	12	10,234.3	330.1	5.7995	-0.9103	5.6600	14.0656

Base Forecast of Refinery Gas Demand (2021-2028)

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-26	83.97%	31	1	10,130.2	326.8	5.7893	-0.6757	5.8698	11.5369
Feb-26	79.66%	28	2	9,187.1	328.1	5.7933	-0.7689	5.6477	12.1843
Mar-26	79.01%	31	3	10,149.6	327.4	5.7912	-0.7197	5.2985	10.8817
Apr-26	78.97%	30	4	9,820.3	327.3	5.7910	-0.7152	4.6812	9.5712
May-26	76.55%	31	5	10,172.4	328.1	5.7934	-0.7712	4.6104	9.9690
Jun-26	78.82%	30	6	9,898.9	330.0	5.7990	-0.8982	4.6512	11.4199
Jul-26	78.05%	31	7	10,247.3	330.6	5.8008	-0.9394	4.8232	12.3404
Aug-26	79.13%	31	8	10,250.9	330.7	5.8011	-0.9476	4.9773	12.8396
Sep-26	78.90%	30	9	9,965.4	332.2	5.8057	-1.0518	4.8937	14.0097
Oct-26	81.71%	31	10	10,370.9	334.5	5.8128	-1.2147	4.7621	16.0456
Nov-26	81.19%	30	11	9,983.6	332.8	5.8075	-1.0937	5.1187	15.2811
Dec-26	82.51%	31	12	10,251.1	330.7	5.8012	-0.9480	5.6373	14.5479
Jan-27	83.97%	31	1	10,155.0	327.6	5.7917	-0.7319	5.8610	12.1850
Feb-27	79.66%	28	2	9,208.2	328.9	5.7956	-0.8217	5.6582	12.8688
Mar-27	79.01%	31	3	10,168.0	328.0	5.7930	-0.7611	5.3688	11.4929
Apr-27	78.97%	30	4	9,838.5	327.9	5.7929	-0.7577	4.7386	10.1089
May-27	76.55%	31	5	10,189.3	328.7	5.7951	-0.8093	4.6874	10.5290
Jun-27	78.82%	30	6	9,916.0	330.5	5.8007	-0.9379	4.7215	12.0614
Jul-27	78.05%	31	7	10,266.1	331.2	5.8026	-0.9815	4.8844	13.0336
Aug-27	79.13%	31	8	10,271.0	331.3	5.8031	-0.9924	5.0267	13.5609
Sep-27	78.90%	30	9	9,985.1	332.8	5.8077	-1.0972	4.9391	14.7967
Oct-27	81.71%	31	10	10,392.5	335.2	5.8148	-1.2623	4.7959	16.9470
Nov-27	81.19%	30	11	10,005.9	333.5	5.8097	-1.1449	5.1364	16.1396
Dec-27	82.51%	31	12	10,274.1	331.4	5.8034	-0.9995	5.6552	15.3651
Jan-28	83.97%	31	1	10,181.8	328.4	5.7944	-0.7923	5.8932	13.0152
Feb-28	79.66%	29	2	9,560.0	329.7	5.7980	-0.8767	5.7203	13.7456
Mar-28	79.01%	31	3	10,190.3	328.7	5.7952	-0.8114	5.4536	12.2760
Apr-28	78.97%	30	4	9,857.9	328.6	5.7948	-0.8029	4.8377	10.7976
May-28	76.55%	31	5	10,210.3	329.4	5.7972	-0.8565	4.7756	11.2464
Jun-28	78.82%	30	6	9,936.7	331.2	5.8028	-0.9856	4.8082	12.8832
Jul-28	78.05%	31	7	10,287.2	331.8	5.8047	-1.0287	4.9764	13.9216
Aug-28	79.13%	31	8	10,291.9	332.0	5.8051	-1.0392	5.1236	14.4848
Sep-28	78.90%	30	9	10,005.1	333.5	5.8097	-1.1430	5.0393	15.8048
Oct-28	81.71%	31	10	10,414.8	336.0	5.8170	-1.3115	4.8767	18.1016
Nov-28	81.19%	30	11	10,028.2	334.3	5.8120	-1.1960	5.2134	17.2392
Dec-28	82.51%	31	12	10,302.0	332.3	5.8061	-1.0616	5.6768	16.4120

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 2024 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-2024 = (8,061.5) - (6.0) = (8,055.5 MDth).

The reduction of 6.0 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 2024 is:

G-50 Refinery Gas Demand, Aug-2024 = (2,125.6 MDth).

Cogeneration (G-50) refinery gas demand is billed according to the two-tiered EG rate structure. The projected refinery cogeneration gas demand by tier assigns 98.727% of the base refinery cogeneration to tier 2. The cogeneration gas demand to tier 1 is 1.273% of the base refinery cogeneration demand. These ratios are calculated based on 2021 historical data.

Using August 2024 as an example:

Tier 1: = (2,125.6 MDth) x (1.273%) = 27.1 MDth

Tier 2: = (2,125.6 MDth) x (98.727%) = 2,098.5 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 2021, while forecasts cover years 2022-2028.

B. Monthly Forecast Tables

The second table below provide monthly gas demand for the refinery segment. Recorded data are for year 2021, while forecasts cover years 2022-2028.

**Annual Refinery Gas Demand: Recorded (2021)
Forecast (2022-2028) (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)
2021	118,437	94,685	0	94,685	365	23,752	0	23,752
2022	119,729	95,660	22	95,638	365	24,092	0	24,092
2023	119,678	95,632	47	95,585	365	24,093	0	24,093
2024	120,167	96,046	71	95,976	366	24,192	0	24,192
2025	120,221	96,109	96	96,013	365	24,208	0	24,208
2026	120,311	96,199	117	96,082	365	24,229	0	24,229
2027	120,531	96,393	139	96,254	365	24,277	0	24,277
2028	121,106	96,869	160	96,708	366	24,397	0	24,397

Monthly Refinery Gas Demand: Recorded (2021)

Forecast (2022-2028) (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-21	10,665	8,955	0	8,955	31	1,710	0	1,710
Feb-21	8,252	6,574	0	6,574	28	1,678	0	1,678
Mar-21	10,887	8,602	0	8,602	31	2,285	0	2,285
Apr-21	9,895	7,814	0	7,814	30	2,081	0	2,081
May-21	9,469	7,248	0	7,248	31	2,221	0	2,221
Jun-21	9,723	7,663	0	7,663	30	2,060	0	2,060
Jul-21	8,978	7,007	0	7,007	31	1,971	0	1,971
Aug-21	10,091	7,986	0	7,986	31	2,106	0	2,106
Sep-21	9,669	7,629	0	7,629	30	2,040	0	2,040
Oct-21	10,446	8,536	0	8,536	31	1,910	0	1,910
Nov-21	9,831	7,982	0	7,982	30	1,849	0	1,849
Dec-21	10,531	8,689	0	8,689	31	1,842	0	1,842
Jan-22	10,115	8,495	2	8,493	31	1,622	0	1,622
Feb-22	9,194	7,325	2	7,324	28	1,870	0	1,870
Mar-22	10,109	7,989	2	7,987	31	2,122	0	2,122
Apr-22	9,797	7,738	2	7,736	30	2,060	0	2,060
May-22	10,148	7,769	2	7,767	31	2,381	0	2,381
Jun-22	9,842	7,759	2	7,757	30	2,085	0	2,085
Jul-22	10,118	7,898	2	7,896	31	2,222	0	2,222
Aug-22	10,127	8,015	2	8,013	31	2,113	0	2,113
Sep-22	9,877	7,795	2	7,793	30	2,085	0	2,085
Oct-22	10,332	8,444	2	8,443	31	1,890	0	1,890
Nov-22	9,916	8,053	2	8,051	30	1,865	0	1,865
Dec-22	10,154	8,380	2	8,378	31	1,776	0	1,776
Jan-23	10,095	8,480	4	8,476	31	1,619	0	1,619
Feb-23	9,080	7,236	4	7,233	28	1,848	0	1,848
Mar-23	10,086	7,972	4	7,968	31	2,118	0	2,118
Apr-23	9,821	7,759	4	7,755	30	2,066	0	2,066
May-23	10,180	7,796	4	7,792	31	2,389	0	2,389
Jun-23	9,904	7,809	4	7,805	30	2,099	0	2,099
Jul-23	10,162	7,934	4	7,930	31	2,232	0	2,232
Aug-23	10,171	8,052	4	8,048	31	2,123	0	2,123
Sep-23	9,924	7,833	4	7,829	30	2,095	0	2,095
Oct-23	10,211	8,347	4	8,343	31	1,868	0	1,868
Nov-23	9,891	8,034	4	8,030	30	1,861	0	1,861
Dec-23	10,153	8,381	4	8,377	31	1,776	0	1,776
Jan-24	10,057	8,450	6	8,444	31	1,613	0	1,613
Feb-24	9,459	7,539	6	7,534	29	1,925	0	1,925
Mar-24	10,100	7,984	6	7,978	31	2,121	0	2,121
Apr-24	9,784	7,731	6	7,726	30	2,059	0	2,059
May-24	10,138	7,765	6	7,759	31	2,379	0	2,379
Jun-24	9,867	7,781	6	7,775	30	2,091	0	2,091
Jul-24	10,170	7,942	6	7,936	31	2,234	0	2,234
Aug-24	10,181	8,061	6	8,055	31	2,126	0	2,126
Sep-24	9,903	7,818	6	7,812	30	2,091	0	2,091
Oct-24	10,348	8,461	6	8,455	31	1,893	0	1,893
Nov-24	9,963	8,094	6	8,089	30	1,875	0	1,875
Dec-24	10,197	8,419	6	8,413	31	1,784	0	1,784
Jan-25	10,099	8,487	8	8,478	31	1,620	0	1,620
Feb-25	9,159	7,302	7	7,295	28	1,865	0	1,865
Mar-25	10,137	8,015	8	8,007	31	2,130	0	2,130
Apr-25	9,810	7,754	8	7,746	30	2,064	0	2,064
May-25	10,170	7,791	8	7,782	31	2,387	0	2,387
Jun-25	9,893	7,804	8	7,796	30	2,097	0	2,097
Jul-25	10,228	7,989	8	7,981	31	2,247	0	2,247
Aug-25	10,231	8,102	8	8,094	31	2,136	0	2,136
Sep-25	9,944	7,852	8	7,844	30	2,100	0	2,100
Oct-25	10,349	8,463	8	8,455	31	1,894	0	1,894
Nov-25	9,975	8,106	8	8,098	30	1,877	0	1,877
Dec-25	10,226	8,445	8	8,436	31	1,790	0	1,790

Monthly Refinery Gas Demand: Recorded (2021)

Forecast (2022-2028) (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-26	10,120	8,506	10	8,496	31	1,624	0	1,624
Feb-26	9,178	7,318	9	7,309	28	1,869	0	1,869
Mar-26	10,140	8,019	10	8,009	31	2,131	0	2,131
Apr-26	9,811	7,755	10	7,746	30	2,065	0	2,065
May-26	10,163	7,786	10	7,777	31	2,386	0	2,386
Jun-26	9,889	7,802	10	7,792	30	2,097	0	2,097
Jul-26	10,237	7,998	10	7,988	31	2,250	0	2,250
Aug-26	10,241	8,112	10	8,102	31	2,139	0	2,139
Sep-26	9,956	7,863	10	7,853	30	2,103	0	2,103
Oct-26	10,361	8,475	10	8,465	31	1,896	0	1,896
Nov-26	9,974	8,106	10	8,096	30	1,878	0	1,878
Dec-26	10,241	8,458	10	8,449	31	1,793	0	1,793
Jan-27	10,143	8,527	12	8,515	31	1,628	0	1,628
Feb-27	9,198	7,335	11	7,325	28	1,873	0	1,873
Mar-27	10,156	8,034	12	8,022	31	2,134	0	2,134
Apr-27	9,827	7,770	11	7,758	30	2,069	0	2,069
May-27	10,178	7,799	12	7,788	31	2,390	0	2,390
Jun-27	9,905	7,815	11	7,804	30	2,101	0	2,101
Jul-27	10,254	8,012	12	8,001	31	2,254	0	2,254
Aug-27	10,259	8,128	12	8,116	31	2,143	0	2,143
Sep-27	9,974	7,878	11	7,867	30	2,107	0	2,107
Oct-27	10,381	8,492	12	8,480	31	1,900	0	1,900
Nov-27	9,995	8,124	11	8,113	30	1,882	0	1,882
Dec-27	10,262	8,477	12	8,466	31	1,797	0	1,797
Jan-28	10,168	8,550	14	8,536	31	1,632	0	1,632
Feb-28	9,547	7,615	13	7,603	29	1,945	0	1,945
Mar-28	10,177	8,051	14	8,038	31	2,139	0	2,139
Apr-28	9,845	7,785	13	7,772	30	2,073	0	2,073
May-28	10,197	7,816	14	7,802	31	2,395	0	2,395
Jun-28	9,924	7,832	13	7,819	30	2,105	0	2,105
Jul-28	10,274	8,029	14	8,015	31	2,258	0	2,258
Aug-28	10,278	8,144	14	8,131	31	2,147	0	2,147
Sep-28	9,992	7,894	13	7,881	30	2,111	0	2,111
Oct-28	10,401	8,510	14	8,497	31	1,904	0	1,904
Nov-28	10,015	8,142	13	8,129	30	1,886	0	1,886
Dec-28	10,288	8,500	14	8,487	31	1,802	0	1,802

SoCalGas Consolidated G-30 Noncore C&I Gas Demand Forecast

A. “Out-of-Model” Gas Demand Forecasts

This final category of gas demand for the G-30 load is associated with customers who are included in the large cogeneration, EWG or UEG market segments but who have gas consumption not used to generate electricity. This gas consumption is charged under G30 rates rather than the electric generation rate that applies for most of their G50 consumption.

The following table shows the monthly load for year 2021. These values were used as the profile for these customers for each year of 2022 through 2028.

Month	Mdth
Jan-21	153.3
Feb-21	136.3
Mar-21	164.9
Apr-21	128.9
May-21	91.4
Jun-21	149.8
Jul-21	71.4
Aug-21	90.3
Sep-21	180.9
Oct-21	122.5
Nov-21	145.0
Dec-21	292.7

For example, the projected G-30 “out-of-model” gas demand for August 2024 would simply be: 90.3 MDth.

B. Combined G-30 Noncore Commercial and Industrial Gas Demand Forecast

A final adjustment to the noncore C&I G30 load forecast was done to account for “Rule-38” gas load. According to SoCalGas Rule No. 38: “Pursuant to Decision 18-05-006, effective May 10, 2018, this Schedule is closed to new contracts.” A small “Rule-38” amount here is projected forward using Rule-38 existing G-30 C&I customers’ load.

Using the August 2024 data example, the resulting total noncore C&I G30 forecast of demand would be:

$$\begin{aligned} &= \text{Noncore Commercial} + \text{Noncore Industrial (Non-Refinery)} + \\ &\quad + \text{Noncore Industrial (Refinery)} + \text{Out-of-Model} - \text{Rule 38} \\ &= 1,274.4 + 4,744.8 + 8,055.5 + 90.3 - 2.6 \\ &= 14,162.4 \text{ MDth} \end{aligned}$$

This value checks with the value (141,624 MTh) shown in the SoCalGas consolidated gas demand forecast work papers for August 2024.

SOCALGAS
SMALL COGENERATION / SELF-GENERATION
(CAPACITY < 20 MW)
GAS DEMAND FORECAST

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. In addition to the econometric projection, there is a contribution of gas demand expected from the Self Generation Incentive Program (SGIP) attributed to noncore gas customers who are expected to participate.

Although these customers are associated with G-50 transportation rates their gas demand in total is split into two tiers based on a customer's annual consumption (tier 1 for $\leq 3,000,000$ Thm/yr; and tier 2 for $> 3,000,000$ Thm/yr). As electric generation customers their consumption is billed at the EG rate structure.

BASE EQUATION TO FORECAST ANNUAL DEMAND

The base forecast equation for annual demand is shown below:

$$\text{LN}(\text{SmCoGen_MDth/yr}) = 8.1913656 + \text{LN}(\#\text{Cust}) \times (0.3428311) \\ + \text{LN}(\text{G/E}) \times (-0.0794262), \text{ where}$$

#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 2024 is as follows:

$$\text{LN}[\text{SmCoGen_MDth/yr}] = 8.1913656 + \text{LN}(320) \times 0.3428311 \\ + \text{LN}[(7.319161 \text{ ¢/Kwh}) / (16.661679 \text{ ¢/Kwh})] \times (-0.0794262)$$

$$\text{LN}[\text{SmCoGen_MDth/yr}] = 10.234263$$

$$(\text{EXP}[10.24835]) = 27,840.9 \text{ MDth/yr}$$

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 cnv. to ¢/Kwh
2021	26,174.4	320	10.173	5.768	-0.741	0.48	14.31	6.82
2022	27,542.6	320	10.223	5.768	-0.687	0.50	15.89	7.99
2023	27,763.5	320	10.231	5.768	-0.788	0.45	16.32	7.43
2024	27,840.9	320	10.234	5.768	-0.823	0.44	16.66	7.32
2025	28,043.8	320	10.242	5.768	-0.914	0.40	17.44	6.99
2026	28,109.3	320	10.244	5.768	-0.943	0.39	18.17	7.07
2027	28,137.6	320	10.245	5.768	-0.956	0.38	18.59	7.14
2028	28,210.5	320	10.247	5.768	-0.989	0.37	19.49	7.25

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

The table below shows the annual demand forecasted by accumulated program years for noncore SGIP:

Noncore SGIP Annual Forecast of Gas Demand

Year	G50 SGIP (Mdth)
2021	0.0
2022	5.6
2023	11.2
2024	16.8
2025	22.4
2026	28.0
2027	33.6
2028	39.2

TOTAL ANNUAL DEMAND FOR SMALL COGENERATION

The table below shows the total (econometric + noncore SGIP G50) combined gas demand for small cogeneration gas demand:

Year	Econometric Model Fcst (Mdth)	SGIP (G50) Fcst (Mdth)	Final Sm. CoGen (Mdth)
2021	26,174.4	0.0	26,174.4
2022	27,542.6	5.6	27,548.2
2023	27,763.5	11.2	27,774.7
2024	27,840.9	16.8	27,857.7
2025	28,043.8	22.4	28,066.2
2026	28,109.3	28.0	28,137.3
2027	28,137.6	33.6	28,171.2
2028	28,210.5	39.2	28,249.7

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 (2019-2021)
1	Jan	8.566%
2	Feb	7.216%
3	Mar	8.152%
4	Apr	7.936%
5	May	8.506%
6	Jun	8.407%
7	Jul	8.791%
8	Aug	8.996%
9	Sep	8.416%
10	Oct	8.230%
11	Nov	8.287%
12	Dec	8.496%
	Total	100.000%

FORECAST RESULTS

Based on the year 2024 example above together with the monthly percentages of annual total load in the table above, the August 2024 small cogeneration (G-50) gas demand is calculated as:

$$\begin{aligned}\text{SmCoGen_G-50} &= (27,840.9 \text{ MDth/yr, base forecast} + 16.8 \text{ MDth/yr, from G-50 SGIP}) \\ &\quad \times (8.996\%, \text{ monthly \% of annual}) \\ &= 2,506 \text{ MDth}\end{aligned}$$

Small cogeneration (G-50) gas demand is billed according to the two-tiered EG rate structure. The projected gas demand by tier assigns 60.399% of the total cogeneration demand to tier 2; the remaining 39.601% is assigned to tier 1. These ratios are calculated based on 2021 historical data.

Using August 2024 as an example:

$$\text{Tier 2: } (1,513.6 \text{ MDth}) = (2,506 \text{ MDth}) \times (60.399\%)$$

$$\text{Tier 1: } (992.4 \text{ MDth}) = (2,506 \text{ MDth}) \times (39.601\%)$$

The tables below provide the small cogeneration annual and monthly gas demand forecasts. Recorded data are for year 2021, while forecasts cover years from 2022 through 2028.

**Annual Small Cogeneration / Self-Generation Gas Demand:
Recorded (2021) and
Forecast (2022-2028) (MDth)**

Small Cogen (C&I) (G-50) Gas Demand	
Year	(MDth)
2021	26,174
2022	27,548
2023	27,775
2024	27,858
2025	28,066
2026	28,137
2027	28,171
2028	28,250

**Monthly Small Cogeneration / Self-Generation Gas Demand:
Recorded (2021) and Forecast (2022-2028)
(MDth)**

Year	Month	Small Cogen (C&I) (G-50) Gas Demand (MDth)	Small CoGen - Tier 1 (Mdth)	Small CoGen - Tier 2 (Mdth)
2021	Jan-21	2,242.1	887.9	1,354.2
2021	Feb-21	1,888.9	748.0	1,140.8
2021	Mar-21	2,133.9	845.0	1,288.8
2021	Apr-21	2,077.3	822.6	1,254.7
2021	May-21	2,226.4	881.7	1,344.7
2021	Jun-21	2,200.5	871.4	1,329.1
2021	Jul-21	2,300.9	911.2	1,389.7
2021	Aug-21	2,354.5	932.4	1,422.1
2021	Sep-21	2,202.8	872.3	1,330.4
2021	Oct-21	2,154.2	853.1	1,301.1
2021	Nov-21	2,169.0	858.9	1,310.0
2021	Dec-21	2,223.9	880.7	1,343.2
2022	Jan-22	2,359.8	934.5	1,425.3
2022	Feb-22	1,988.0	787.3	1,200.7
2022	Mar-22	2,245.9	889.4	1,356.5
2022	Apr-22	2,186.4	865.8	1,320.5
2022	May-22	2,343.3	928.0	1,415.3
2022	Jun-22	2,316.0	917.2	1,398.8
2022	Jul-22	2,421.7	959.0	1,462.7
2022	Aug-22	2,478.1	981.4	1,496.8
2022	Sep-22	2,318.4	918.1	1,400.3
2022	Oct-22	2,267.2	897.9	1,369.4
2022	Nov-22	2,282.8	904.0	1,378.8
2022	Dec-22	2,340.6	926.9	1,413.7
2023	Jan-23	2,379.2	942.2	1,437.0
2023	Feb-23	2,004.3	793.7	1,210.6
2023	Mar-23	2,264.3	896.7	1,367.6
2023	Apr-23	2,204.3	872.9	1,331.4
2023	May-23	2,362.6	935.6	1,427.0
2023	Jun-23	2,335.0	924.7	1,410.3
2023	Jul-23	2,441.6	966.9	1,474.7
2023	Aug-23	2,498.5	989.4	1,509.1
2023	Sep-23	2,337.5	925.7	1,411.8
2023	Oct-23	2,285.9	905.2	1,380.6
2023	Nov-23	2,301.6	911.5	1,390.1
2023	Dec-23	2,359.8	934.5	1,425.3
2024	Jan-24	2,386.3	945.0	1,441.3
2024	Feb-24	2,010.3	796.1	1,214.2
2024	Mar-24	2,271.1	899.4	1,371.7
2024	Apr-24	2,210.9	875.6	1,335.4
2024	May-24	2,369.6	938.4	1,431.2
2024	Jun-24	2,342.0	927.5	1,414.6
2024	Jul-24	2,448.9	969.8	1,479.1
2024	Aug-24	2,506.0	992.4	1,513.6
2024	Sep-24	2,344.4	928.4	1,416.0
2024	Oct-24	2,292.7	907.9	1,384.8
2024	Nov-24	2,308.5	914.2	1,394.3
2024	Dec-24	2,366.9	937.3	1,429.6
2025	Jan-25	2,404.2	952.1	1,452.1
2025	Feb-25	2,025.4	802.1	1,223.3
2025	Mar-25	2,288.1	906.1	1,382.0
2025	Apr-25	2,227.5	882.1	1,345.4
2025	May-25	2,387.4	945.4	1,441.9
2025	Jun-25	2,359.6	934.4	1,425.1
2025	Jul-25	2,467.3	977.1	1,490.2
2025	Aug-25	2,524.7	999.8	1,524.9
2025	Sep-25	2,362.0	935.4	1,426.6
2025	Oct-25	2,309.9	914.7	1,395.1
2025	Nov-25	2,325.7	921.0	1,404.7
2025	Dec-25	2,384.6	944.3	1,440.3

**Monthly Small Cogeneration / Self-Generation Gas Demand:
Recorded (2021) and Forecast (2022-2028)
(MDth)**

Year	Month	Small Cogen (C&I) (G-50) Gas Demand (MDth)	Small CoGen - Tier 1 (Mdth)	Small CoGen - Tier 2 (Mdth)
2026	Jan-26	2,410.3	954.5	1,455.8
2026	Feb-26	2,030.5	804.1	1,226.4
2026	Mar-26	2,293.9	908.4	1,385.5
2026	Apr-26	2,233.1	884.3	1,348.8
2026	May-26	2,393.4	947.8	1,445.6
2026	Jun-26	2,365.5	936.8	1,428.8
2026	Jul-26	2,473.5	979.5	1,494.0
2026	Aug-26	2,531.1	1,002.4	1,528.8
2026	Sep-26	2,368.0	937.8	1,430.2
2026	Oct-26	2,315.7	917.1	1,398.7
2026	Nov-26	2,331.6	923.4	1,408.3
2026	Dec-26	2,390.6	946.7	1,443.9
2027	Jan-27	2,413.2	955.7	1,457.5
2027	Feb-27	2,033.0	805.1	1,227.9
2027	Mar-27	2,296.7	909.5	1,387.1
2027	Apr-27	2,235.8	885.4	1,350.4
2027	May-27	2,396.3	949.0	1,447.3
2027	Jun-27	2,368.4	937.9	1,430.5
2027	Jul-27	2,476.5	980.7	1,495.8
2027	Aug-27	2,534.2	1,003.6	1,530.6
2027	Sep-27	2,370.8	938.9	1,431.9
2027	Oct-27	2,318.5	918.2	1,400.3
2027	Nov-27	2,334.4	924.5	1,410.0
2027	Dec-27	2,393.5	947.9	1,445.7
2028	Jan-28	2,419.9	958.3	1,461.6
2028	Feb-28	2,038.6	807.3	1,231.3
2028	Mar-28	2,303.1	912.0	1,391.0
2028	Apr-28	2,242.0	887.9	1,354.2
2028	May-28	2,403.0	951.6	1,451.4
2028	Jun-28	2,375.0	940.5	1,434.5
2028	Jul-28	2,483.4	983.5	1,499.9
2028	Aug-28	2,541.2	1,006.4	1,534.9
2028	Sep-28	2,377.4	941.5	1,435.9
2028	Oct-28	2,325.0	920.7	1,404.2
2028	Nov-28	2,340.9	927.0	1,413.9
2028	Dec-28	2,400.2	950.5	1,449.7

**SOCALGAS LARGE COGENERATION (CAPACITY > 20 MW),
UTILITY ELECTRIC GENERATION (UEG) AND
EXEMPT WHOLESALE GENERATION (EWG)
GAS DEMAND FORECAST**

**SoCalGas Large Cogeneration (Capacity > 20 Mw),
Utility Electric Generation (UEG) and
Exempt Wholesale Generation (EWG)
Natural Gas Demand**

The gas demand forecasts for large cogeneration (capacity > 20 Mw), utility electric generation (UEG) and exempt wholesale generation (EWG) are provided by Mr. Huang (Chapter 4) based on the power market simulation model he uses. Forecast details are discussed by Mr. Huang in his prepared testimony and his workpapers.

SoCalGas Consolidated Gas Demand Forecasts for Electric Generation Rate By EG Rate Tier

The over-all gas demand forecasts for electric generation (under the EG rate category) are aggregated from the previous individual market segment forecasts together with a final small adjustment to this total to account for “Rule-38” eligible G-50 gas load. According to SoCalGas Rule No. 38: “Pursuant to Decision 18-05-006, effective May 10, 2018, this Schedule is closed to new contracts.” A small “Rule-38” amount is projected forward using 2021 Rule-38 existing G-50 customers’ load. “Rule-38” demands are subtracted from the tier totals of gas demand forecasts for Small Cogeneration, Refinery Cogeneration, and combined Large Cogeneration and UEG/EWG gas demand.

Using the August 2024 data as an example, the resulting EG-tier1 and EG-tier 2 forecasts of gas demand would be:

Tier 1:

$$\begin{aligned} \text{EG-Tier1_MDth} &= (992.4 \text{ MDth for SmCoGen}) \\ &+ (27.1 \text{ MDth for RefCoGen}) \\ &+ (126.7 \text{ MDth for LgCoGen/UEG/EWG}) \\ &- (17.9 \text{ MDth for Rule-38 Eligible G-50 load}) \\ &= (1,128.3 \text{ MDth}). \end{aligned}$$

Tier 2:

$$\begin{aligned} \text{EG-Tier2_MDth} &= (1,513.6 \text{ MDth for SmCoGen}) \\ &+ (2,098.5 \text{ MDth for RefCoGen}) \\ &+ (18,073.7 \text{ MDth for LgCoGen/UEG/EWG}) \\ &- (0.0 \text{ MDth for Rule-38 Eligible G-50 load}) \\ &= (21,685.8 \text{ MDth}). \end{aligned}$$

Note that the calculations above may reflect small rounding errors.

These results (noting that 1 MDth = 10 MTherms) for tier1 and tier2 gas demand are shown in the SoCalGas consolidated gas demand forecast work papers for August 2024.

SOCALGAS ENHANCED OIL RECOVERY (EOR)

GAS DEMAND FORECAST

SoCalGas Enhanced Oil Recovery Forecasting Methodology

The Enhanced Oil Recovery (EOR) demand forecast is prepared based on historical throughput and general market conditions. For the 2022 to 2028, we expect EOR customers' demand to be stable and then gradually decrease. Combined EOR cogeneration and steaming usage are forecasted to average 15,407 MDth per year in this CAP period (2024-2027).

The table below shows EOR monthly gas demand forecast from 2021 through 2028.

Monthly EOR Gas Demand

Year	Month	Mdth	Customer #	Year	Month	Mdth	Customer #
2021	Jan	1,104.6	32	2025	Jan	1,338.3	32
2021	Feb	997.7	32	2025	Feb	1,208.8	32
2021	Mar	1,104.6	32	2025	Mar	1,338.3	32
2021	Apr	1,069.0	32	2025	Apr	1,295.2	32
2021	May	1,104.6	32	2025	May	1,338.3	32
2021	Jun	1,069.0	32	2025	Jun	1,295.2	32
2021	Jul	1,104.6	32	2025	Jul	1,338.3	32
2021	Aug	1,104.6	32	2025	Aug	1,338.3	32
2021	Sep	1,069.0	32	2025	Sep	1,295.2	32
2021	Oct	1,104.6	32	2025	Oct	1,338.3	32
2021	Nov	1,069.0	32	2025	Nov	1,295.2	32
2021	Dec	1,104.6	32	2025	Dec	1,338.3	32
2022	Jan	1,338.3	32	2026	Jan	1,298.2	32
2022	Feb	1,208.8	32	2026	Feb	1,172.5	32
2022	Mar	1,338.3	32	2026	Mar	1,298.2	32
2022	Apr	1,295.2	32	2026	Apr	1,256.3	32
2022	May	1,338.3	32	2026	May	1,298.2	32
2022	Jun	1,295.2	32	2026	Jun	1,256.3	32
2022	Jul	1,338.3	32	2026	Jul	1,298.2	32
2022	Aug	1,338.3	32	2026	Aug	1,298.2	32
2022	Sep	1,295.2	32	2026	Sep	1,256.3	32
2022	Oct	1,338.3	32	2026	Oct	1,298.2	32
2022	Nov	1,295.2	32	2026	Nov	1,256.3	32
2022	Dec	1,338.3	32	2026	Dec	1,298.2	32
2023	Jan	1,338.3	32	2027	Jan	1,259.2	32
2023	Feb	1,208.8	32	2027	Feb	1,137.4	32
2023	Mar	1,338.3	32	2027	Mar	1,259.2	32
2023	Apr	1,295.2	32	2027	Apr	1,218.6	32
2023	May	1,338.3	32	2027	May	1,259.2	32
2023	Jun	1,295.2	32	2027	Jun	1,218.6	32
2023	Jul	1,338.3	32	2027	Jul	1,259.2	32
2023	Aug	1,338.3	32	2027	Aug	1,259.2	32
2023	Sep	1,295.2	32	2027	Sep	1,218.6	32
2023	Oct	1,338.3	32	2027	Oct	1,259.2	32
2023	Nov	1,295.2	32	2027	Nov	1,218.6	32
2023	Dec	1,338.3	32	2027	Dec	1,259.2	32
2024	Jan	1,338.3	32	2028	Jan	1,221.5	32
2024	Feb	1,208.8	32	2028	Feb	1,103.2	32
2024	Mar	1,338.3	32	2028	Mar	1,221.5	32
2024	Apr	1,295.2	32	2028	Apr	1,182.0	32
2024	May	1,338.3	32	2028	May	1,221.5	32
2024	Jun	1,295.2	32	2028	Jun	1,182.0	32
2024	Jul	1,338.3	32	2028	Jul	1,221.5	32
2024	Aug	1,338.3	32	2028	Aug	1,221.5	32
2024	Sep	1,295.2	32	2028	Sep	1,182.0	32
2024	Oct	1,338.3	32	2028	Oct	1,221.5	32
2024	Nov	1,295.2	32	2028	Nov	1,182.0	32
2024	Dec	1,338.3	32	2028	Dec	1,221.5	32

**SOCALGAS EXCHANGE
GAS DEMAND FORECAST**

SoCalGas Exchange Gas Demand

The Master Exchange Agreement (MEA) was made and entered into on the March 1st, 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
2022	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9
2023	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9
2024	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9
2025	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9
2026	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9
2027	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9
2028	62.6	50.2	39.0	27.6	19.4	20.3	16.7	22.0	18.8	28.7	39.7	67.2	411.9

SDG&E Noncore Retail Gas Demand

SDG&E Noncore Commercial, Noncore Industrial and Small Cogeneration (Self-generation) Gas Demand Forecast

Forecasts of gas demand for these market segments were calculated from relationships developed from monthly consumption data and employment in the San Diego area.

The estimated equations are provided in the next page followed by the historical and calculated forecasts.

SDG&E Non-Core Demand Equations, before energy efficiency and carbon-fee adjustments (MDth)

Cogeneration (MDTH_CGNNC_SD)

Cochrane-Orcutt

MONTHLY data for 191 periods from FEB 2006 to DEC 2021

mdth_cgnnc_sd

$$= 5.71533 * eisd/1000$$

(36.9604)

Sum Sq	736551	Std Err	62.4267	LHS Mean	600.549
R Sq	0.6150	R Bar Sq	0.6130	F	1,189 301.903
D.W.(1)	2.2305	D.W.(12)	1.6529		

$$AR_0 = + 0.72374 * AR_1$$

(14.6347)

Commercial (MDTH_COMNC_SD)

Cochrane-Orcutt

MONTHLY data for 191 periods from FEB 2006 to DEC 2021

mdth_comnc_sd

$$= 0.15232 * ecsd/1000 + 103.108 * dum2006janmay$$

(22.3410) (3.59493)

Sum Sq	120859	Std Err	25.3529	LHS Mean	198.113	Res Mean	0.3062
R Sq	0.7152	R Bar Sq	0.7122	F	3,188 157.359	%RMSE	12.3654
D.W.(1)	2.3181	D.W.(12)	1.1606				

$$AR_0 = + 0.78718 * AR_1$$

(19.1190)

Industrial (MDTH_INDNC_SD)

Cochrane-Orcutt

MONTHLY data for 190 periods from MAR 2006 to DEC 2021

Date: 18 APR 2050

mdth_indnc_sd

$$= 1.70458 * eisd/1000 - 40.7312 * dum2013sepoct$$

(23.3199) (3.54474)

$$+ 86.1081 * dum2015mar$$

(4.79250)

Sum Sq	79187.6	Std Err	20.6891	LHS Mean	177.106
R Sq	0.6707	R Bar Sq	0.6636	F	5,185 75.3558
D.W.(1)	2.0965	D.W.(12)	1.3721		

$$AR_0 = + 0.46526 * AR_1 + 0.33976 * AR_2$$

(6.66787) (4.88571)

ANNUAL SUMMARY

	SDG&E Noncore Commercial & Industrial Demand (MDth)						San Diego County Employment		Cumulative	Cumulative	Carbon Fee Impact	
	Adjusted with DSM and Carbon-Fee Impacts			Unadjusted (from regression equations)			Commercial	Industrial	DSM Cmcl	DSM Indl.	Cogen	Industrial
	Cogeneration	Commercial	Industrial	Cogeneration	Commercial	Industrial	ECSD	EISD	(MDth)	(MDth)	(MDth)	(MDth)
2006	6,253	3,757	1,374	6,253	3,757	1,374	1,219,908	104,800	0	0	0	0
2007	6,353	2,560	1,483	6,353	2,560	1,483	1,229,900	103,292	0	0	0	0
2008	6,861	2,546	1,886	6,861	2,546	1,886	1,221,750	103,658	0	0	0	0
2009	7,268	2,536	1,670	7,268	2,536	1,670	1,161,733	97,558	0	0	0	0
2010	6,371	2,559	1,912	6,371	2,559	1,912	1,154,933	96,058	0	0	0	0
2011	6,577	2,525	2,019	6,577	2,525	2,019	1,163,158	96,892	0	0	0	0
2012	7,015	2,390	2,262	7,015	2,390	2,262	1,193,900	98,675	0	0	0	0
2013	6,872	2,193	2,162	6,872	2,193	2,162	1,225,875	99,858	0	0	0	0
2014	6,616	1,912	2,088	6,616	1,912	2,088	1,251,275	102,800	0	0	0	0
2015	6,526	2,066	2,289	6,526	2,066	2,289	1,287,017	106,867	0	0	0	0
2016	7,460	2,155	2,336	7,460	2,155	2,336	1,322,825	108,692	0	0	0	0
2017	8,829	2,010	2,361	8,829	2,010	2,361	1,351,275	109,700	0	0	0	0
2018	10,130	2,016	2,476	10,130	2,016	2,476	1,378,792	112,708	0	0	0	0
2019	7,234	2,328	2,438	7,234	2,328	2,438	1,396,850	116,017	0	0	0	0
2020	7,433	2,319	2,522	7,433	2,319	2,522	1,280,325	114,150	0	0	0	0
2021	7,346	2,422	2,620	7,346	2,422	2,620	1,304,200	114,221	0	0	0	0
2022	7,783	2,602	2,594	7,846	2,610	2,615	1,372,426	115,716	-8	-7	-64	-14
2023	7,936	2,554	2,402	8,016	2,572	2,432	1,403,960	116,902	-18	-15	-80	-16
2024	7,913	2,570	2,357	8,021	2,598	2,399	1,421,305	116,949	-28	-22	-108	-20
2025	7,883	2,586	2,337	8,006	2,625	2,389	1,436,209	116,738	-39	-28	-123	-23
2026	7,876	2,603	2,330	8,012	2,653	2,390	1,451,643	116,822	-50	-35	-136	-25
2027	7,879	2,613	2,325	8,030	2,675	2,395	1,463,673	117,088	-62	-42	-151	-28
2028	7,847	2,621	2,310	8,014	2,696	2,390	1,474,754	116,843	-75	-49	-167	-31

SDGE Noncore Commercial, Industrial and Small Cogeneration Gas Demand (Monthly)

MONTHLY

SDG&E Noncore Commercial & Industrial Demand (MDth)							San Diego County Employment		Cumulative	Cumulative	Carbon Fee Impact	
Month	Adjusted with DSM and Carbon-Fee Impacts			Unadjusted (from regression equations)			Commercial	Industrial	DSM Cmpl	DSM Indl.	Cogen	Industrial
	Cogeneration	Commercial	Industrial	Cogeneration	Commercial	Industrial	ECSD	EISD	(MDth)	(MDth)	(MDth)	(MDth)
Jan-06	440.5	453.7	119.7	440.5	453.7	119.7	1,195,300	104,100	0.0	0.0	0.0	0.0
Feb-06	482.3	449.3	128.8	482.3	449.3	128.8	1,204,900	104,600	0.0	0.0	0.0	0.0
Mar-06	452.1	409.3	108.2	452.1	409.3	108.2	1,211,500	105,200	0.0	0.0	0.0	0.0
Apr-06	458.3	474.6	130.8	458.3	474.6	130.8	1,213,500	104,800	0.0	0.0	0.0	0.0
May-06	478.6	351.8	134.1	478.6	351.8	134.1	1,222,000	105,100	0.0	0.0	0.0	0.0
Jun-06	509.0	244.8	126.5	509.0	244.8	126.5	1,230,200	105,600	0.0	0.0	0.0	0.0
Jul-06	515.5	231.9	133.6	515.5	231.9	133.6	1,215,600	105,400	0.0	0.0	0.0	0.0
Aug-06	575.8	206.3	98.9	575.8	206.3	98.9	1,220,200	105,000	0.0	0.0	0.0	0.0
Sep-06	586.2	222.2	117.8	586.2	222.2	117.8	1,225,400	104,800	0.0	0.0	0.0	0.0
Oct-06	642.8	214.9	97.9	642.8	214.9	97.9	1,226,300	104,200	0.0	0.0	0.0	0.0
Nov-06	557.5	257.5	96.4	557.5	257.5	96.4	1,236,100	104,400	0.0	0.0	0.0	0.0
Dec-06	554.0	240.2	80.9	554.0	240.2	80.9	1,237,900	104,400	0.0	0.0	0.0	0.0
Jan-07	534.6	235.9	100.4	534.6	235.9	100.4	1,208,000	103,500	0.0	0.0	0.0	0.0
Feb-07	521.6	274.8	127.9	521.6	274.8	127.9	1,217,200	103,300	0.0	0.0	0.0	0.0
Mar-07	505.7	236.5	97.4	505.7	236.5	97.4	1,225,300	103,600	0.0	0.0	0.0	0.0
Apr-07	529.4	263.3	123.3	529.4	263.3	123.3	1,224,900	102,400	0.0	0.0	0.0	0.0
May-07	492.1	228.3	122.3	492.1	228.3	122.3	1,233,700	102,500	0.0	0.0	0.0	0.0
Jun-07	552.0	207.0	123.9	552.0	207.0	123.9	1,241,900	102,600	0.0	0.0	0.0	0.0
Jul-07	516.9	169.5	118.6	516.9	169.5	118.6	1,231,600	103,500	0.0	0.0	0.0	0.0
Aug-07	561.6	167.8	127.4	561.6	167.8	127.4	1,232,700	103,200	0.0	0.0	0.0	0.0
Sep-07	573.0	172.0	141.3	573.0	172.0	141.3	1,232,800	102,900	0.0	0.0	0.0	0.0
Oct-07	547.2	162.9	118.7	547.2	162.9	118.7	1,231,200	103,500	0.0	0.0	0.0	0.0
Nov-07	526.8	201.1	140.0	526.8	201.1	140.0	1,237,500	104,000	0.0	0.0	0.0	0.0
Dec-07	492.6	240.6	142.0	492.6	240.6	142.0	1,242,000	104,500	0.0	0.0	0.0	0.0
Jan-08	512.7	244.4	138.1	512.7	244.4	138.1	1,211,600	103,500	0.0	0.0	0.0	0.0
Feb-08	531.0	263.2	147.7	531.0	263.2	147.7	1,220,800	103,500	0.0	0.0	0.0	0.0
Mar-08	488.8	233.0	165.5	488.8	233.0	165.5	1,226,200	103,900	0.0	0.0	0.0	0.0
Apr-08	517.9	234.3	164.5	517.9	234.3	164.5	1,226,500	103,800	0.0	0.0	0.0	0.0
May-08	495.9	192.1	166.6	495.9	192.1	166.6	1,230,600	103,900	0.0	0.0	0.0	0.0
Jun-08	547.0	208.4	171.5	547.0	208.4	171.5	1,234,200	104,200	0.0	0.0	0.0	0.0
Jul-08	608.1	171.2	169.1	608.1	171.2	169.1	1,222,300	104,000	0.0	0.0	0.0	0.0
Aug-08	638.6	182.4	172.7	638.6	182.4	172.7	1,222,100	104,200	0.0	0.0	0.0	0.0
Sep-08	665.8	196.6	170.8	665.8	196.6	170.8	1,218,800	103,800	0.0	0.0	0.0	0.0
Oct-08	657.2	209.0	150.2	657.2	209.0	150.2	1,217,500	103,700	0.0	0.0	0.0	0.0
Nov-08	618.7	238.4	145.6	618.7	238.4	145.6	1,217,200	103,000	0.0	0.0	0.0	0.0
Dec-08	579.8	172.6	124.2	579.8	172.6	124.2	1,213,200	102,400	0.0	0.0	0.0	0.0
Jan-09	552.8	216.3	117.6	552.8	216.3	117.6	1,175,700	102,500	0.0	0.0	0.0	0.0
Feb-09	520.2	224.2	123.4	520.2	224.2	123.4	1,173,100	101,500	0.0	0.0	0.0	0.0
Mar-09	523.1	232.7	149.7	523.1	232.7	149.7	1,171,800	100,400	0.0	0.0	0.0	0.0
Apr-09	603.3	235.2	143.8	603.3	235.2	143.8	1,167,400	98,900	0.0	0.0	0.0	0.0
May-09	598.0	274.0	118.7	598.0	274.0	118.7	1,170,700	97,700	0.0	0.0	0.0	0.0
Jun-09	651.5	181.9	110.2	651.5	181.9	110.2	1,169,900	97,100	0.0	0.0	0.0	0.0
Jul-09	610.6	176.4	147.9	610.6	176.4	147.9	1,146,400	96,400	0.0	0.0	0.0	0.0
Aug-09	713.0	174.7	146.0	713.0	174.7	146.0	1,147,100	95,900	0.0	0.0	0.0	0.0
Sep-09	664.7	204.6	159.0	664.7	204.6	159.0	1,143,000	95,400	0.0	0.0	0.0	0.0
Oct-09	670.1	204.3	146.9	670.1	204.3	146.9	1,154,200	95,100	0.0	0.0	0.0	0.0
Nov-09	659.9	198.1	171.5	659.9	198.1	171.5	1,160,300	94,900	0.0	0.0	0.0	0.0
Dec-09	501.0	214.1	135.5	501.0	214.1	135.5	1,161,200	94,900	0.0	0.0	0.0	0.0
Jan-10	545.7	223.0	144.0	545.7	223.0	144.0	1,131,900	95,100	0.0	0.0	0.0	0.0
Feb-10	544.5	220.6	138.3	544.5	220.6	138.3	1,136,200	95,000	0.0	0.0	0.0	0.0
Mar-10	493.1	206.2	128.2	493.1	206.2	128.2	1,140,900	95,600	0.0	0.0	0.0	0.0
Apr-10	562.2	207.0	157.0	562.2	207.0	157.0	1,153,600	96,400	0.0	0.0	0.0	0.0
May-10	518.4	202.3	142.8	518.4	202.3	142.8	1,164,900	96,400	0.0	0.0	0.0	0.0
Jun-10	519.9	221.2	169.0	519.9	221.2	169.0	1,166,800	96,300	0.0	0.0	0.0	0.0
Jul-10	532.8	204.3	178.4	532.8	204.3	178.4	1,154,600	96,100	0.0	0.0	0.0	0.0
Aug-10	551.2	216.1	169.4	551.2	216.1	169.4	1,157,300	96,400	0.0	0.0	0.0	0.0
Sep-10	531.0	207.9	177.2	531.0	207.9	177.2	1,156,100	96,100	0.0	0.0	0.0	0.0
Oct-10	520.2	199.5	176.3	520.2	199.5	176.3	1,162,000	96,200	0.0	0.0	0.0	0.0
Nov-10	501.0	228.3	176.5	501.0	228.3	176.5	1,166,100	96,300	0.0	0.0	0.0	0.0
Dec-10	550.5	223.0	155.0	550.5	223.0	155.0	1,168,800	96,800	0.0	0.0	0.0	0.0
Jan-11	545.1	246.1	144.0	545.1	246.1	144.0	1,146,900	96,400	0.0	0.0	0.0	0.0
Feb-11	532.2	229.5	168.8	532.2	229.5	168.8	1,155,100	96,300	0.0	0.0	0.0	0.0
Mar-11	473.1	226.4	167.9	473.1	226.4	167.9	1,159,100	96,500	0.0	0.0	0.0	0.0
Apr-11	560.3	223.0	165.2	560.3	223.0	165.2	1,161,700	96,400	0.0	0.0	0.0	0.0
May-11	538.6	196.6	152.3	538.6	196.6	152.3	1,164,500	96,600	0.0	0.0	0.0	0.0
Jun-11	574.3	197.8	175.0	574.3	197.8	175.0	1,167,500	97,200	0.0	0.0	0.0	0.0
Jul-11	557.5	189.0	179.9	557.5	189.0	179.9	1,156,200	97,000	0.0	0.0	0.0	0.0
Aug-11	579.9	203.0	186.5	579.9	203.0	186.5	1,158,500	97,100	0.0	0.0	0.0	0.0
Sep-11	592.4	186.9	190.3	592.4	186.9	190.3	1,162,500	97,200	0.0	0.0	0.0	0.0
Oct-11	569.8	186.4	169.1	569.8	186.4	169.1	1,168,400	97,100	0.0	0.0	0.0	0.0
Nov-11	508.9	235.3	176.8	508.9	235.3	176.8	1,177,500	97,200	0.0	0.0	0.0	0.0
Dec-11	544.5	205.2	143.1	544.5	205.2	143.1	1,180,000	97,700	0.0	0.0	0.0	0.0
Jan-12	550.3	211.5	178.1	550.3	211.5	178.1	1,157,100	96,500	0.0	0.0	0.0	0.0
Feb-12	536.4	199.7	191.4	536.4	199.7	191.4	1,166,400	96,800	0.0	0.0	0.0	0.0
Mar-12	572.9	216.2	193.5	572.9	216.2	193.5	1,173,700	96,900	0.0	0.0	0.0	0.0
Apr-12	543.7	194.9	192.6	543.7	194.9	192.6	1,190,700	97,800	0.0	0.0	0.0	0.0
May-12	583.8	193.8	204.5	583.8	193.8	204.5	1,199,900	98,300	0.0	0.0	0.0	0.0
Jun-12	577.0	181.4	184.8	577.0	181.4	184.8	1,207,600	98,600	0.0	0.0	0.0	0.0
Jul-12	614.6	183.3	201.1	614.6	183.3	201.1	1,191,300	99,500	0.0	0.0	0.0	0.0
Aug-12	648.5	170.2	213.0	648.5	170.2	213.0	1,196,700	99,900	0.0	0.0	0.0	0.0
Sep-12	637.5	153.4	187.7	637.5	153.4	187.7	1,197,100	99,600	0.0	0.0	0.0	0.0
Oct-12	593.8	207.1	195.8	593.8	207.1	195.8	1,207,500	99,700	0.0	0.0	0.0	0.0
Nov-12	579.8	246.2	175.4	579.8	246.2	175.4	1,218,200	100,100	0.0	0.0	0.0	0.0

SDGE Noncore Commercial, Industrial and Small Cogeneration Gas Demand (Monthly)

Dec-12	576.3	231.9	144.1	576.3	231.9	144.1	1,220,600	100,400	0.0	0.0	0.0	0.0
Jan-13	570.7	261.6	180.2	570.7	261.6	180.2	1,197,700	99,200	0.0	0.0	0.0	0.0
Feb-13	517.6	222.7	174.0	517.6	222.7	174.0	1,206,200	99,500	0.0	0.0	0.0	0.0
Mar-13	590.1	205.1	189.7	590.1	205.1	189.7	1,213,900	99,700	0.0	0.0	0.0	0.0
Apr-13	564.5	210.2	199.8	564.5	210.2	199.8	1,219,800	99,600	0.0	0.0	0.0	0.0
May-13	596.3	165.6	181.8	596.3	165.6	181.8	1,225,200	99,400	0.0	0.0	0.0	0.0
Jun-13	585.2	144.9	195.6	585.2	144.9	195.6	1,231,900	99,300	0.0	0.0	0.0	0.0
Jul-13	632.1	138.9	182.3	632.1	138.9	182.3	1,219,900	99,800	0.0	0.0	0.0	0.0
Aug-13	605.3	140.7	195.8	605.3	140.7	195.8	1,225,400	99,800	0.0	0.0	0.0	0.0
Sep-13	589.2	149.1	126.8	589.2	149.1	126.8	1,225,800	99,900	0.0	0.0	0.0	0.0
Oct-13	610.1	158.8	202.2	610.1	158.8	202.2	1,240,500	100,300	0.0	0.0	0.0	0.0
Nov-13	480.3	198.8	183.2	480.3	198.8	183.2	1,251,500	100,700	0.0	0.0	0.0	0.0
Dec-13	530.8	196.8	150.5	530.8	196.8	150.5	1,252,700	101,100	0.0	0.0	0.0	0.0
Jan-14	554.7	176.7	203.1	554.7	176.7	203.1	1,222,900	100,700	0.0	0.0	0.0	0.0
Feb-14	464.9	171.6	164.5	464.9	171.6	164.5	1,232,600	100,900	0.0	0.0	0.0	0.0
Mar-14	535.6	215.1	143.6	535.6	215.1	143.6	1,239,800	101,000	0.0	0.0	0.0	0.0
Apr-14	553.0	171.6	189.7	553.0	171.6	189.7	1,243,200	101,800	0.0	0.0	0.0	0.0
May-14	562.2	142.8	187.1	562.2	142.8	187.1	1,249,700	102,100	0.0	0.0	0.0	0.0
Jun-14	555.6	131.4	178.0	555.6	131.4	178.0	1,256,800	102,600	0.0	0.0	0.0	0.0
Jul-14	577.1	132.8	198.2	577.1	132.8	198.2	1,244,800	103,200	0.0	0.0	0.0	0.0
Aug-14	579.6	131.7	165.5	579.6	131.7	165.5	1,253,300	103,500	0.0	0.0	0.0	0.0
Sep-14	598.3	122.9	175.8	598.3	122.9	175.8	1,253,300	103,600	0.0	0.0	0.0	0.0
Oct-14	545.5	189.5	191.0	545.5	189.5	191.0	1,264,000	104,200	0.0	0.0	0.0	0.0
Nov-14	556.4	152.7	164.3	556.4	152.7	164.3	1,276,600	104,700	0.0	0.0	0.0	0.0
Dec-14	533.4	173.1	127.6	533.4	173.1	127.6	1,278,300	105,300	0.0	0.0	0.0	0.0
Jan-15	531.8	175.6	175.7	531.8	175.6	175.7	1,256,100	104,800	0.0	0.0	0.0	0.0
Feb-15	499.5	143.8	167.7	499.5	143.8	167.7	1,262,400	105,100	0.0	0.0	0.0	0.0
Mar-15	579.2	149.7	273.4	579.2	149.7	273.4	1,268,600	105,800	0.0	0.0	0.0	0.0
Apr-15	539.7	180.0	203.6	539.7	180.0	203.6	1,275,000	105,700	0.0	0.0	0.0	0.0
May-15	573.7	149.0	200.2	573.7	149.0	200.2	1,285,000	106,200	0.0	0.0	0.0	0.0
Jun-15	590.9	142.7	186.3	590.9	142.7	186.3	1,288,200	106,800	0.0	0.0	0.0	0.0
Jul-15	595.0	148.3	203.9	595.0	148.3	203.9	1,287,400	107,800	0.0	0.0	0.0	0.0
Aug-15	586.5	157.1	175.1	586.5	157.1	175.1	1,290,300	108,200	0.0	0.0	0.0	0.0
Sep-15	561.7	147.7	159.3	561.7	147.7	159.3	1,290,900	107,900	0.0	0.0	0.0	0.0
Oct-15	546.8	195.0	169.0	546.8	195.0	169.0	1,307,100	107,900	0.0	0.0	0.0	0.0
Nov-15	452.0	225.6	180.2	452.0	225.6	180.2	1,316,700	108,000	0.0	0.0	0.0	0.0
Dec-15	469.7	251.3	194.0	469.7	251.3	194.0	1,316,500	108,200	0.0	0.0	0.0	0.0
Jan-16	525.5	247.4	178.3	525.5	247.4	178.3	1,291,600	107,800	0.0	0.0	0.0	0.0
Feb-16	529.4	201.9	191.9	529.4	201.9	191.9	1,302,700	107,900	0.0	0.0	0.0	0.0
Mar-16	554.3	202.2	201.0	554.3	202.2	201.0	1,303,300	107,900	0.0	0.0	0.0	0.0
Apr-16	542.0	171.6	193.5	542.0	171.6	193.5	1,317,700	108,200	0.0	0.0	0.0	0.0
May-16	575.3	161.4	203.6	575.3	161.4	203.6	1,323,000	108,300	0.0	0.0	0.0	0.0
Jun-16	555.0	151.0	219.0	555.0	151.0	219.0	1,323,500	108,700	0.0	0.0	0.0	0.0
Jul-16	657.4	155.6	183.8	657.4	155.6	183.8	1,320,200	109,400	0.0	0.0	0.0	0.0
Aug-16	706.9	154.9	213.4	706.9	154.9	213.4	1,325,400	108,900	0.0	0.0	0.0	0.0
Sep-16	675.6	160.3	196.9	675.6	160.3	196.9	1,328,800	108,600	0.0	0.0	0.0	0.0
Oct-16	643.6	170.4	194.8	643.6	170.4	194.8	1,339,100	109,500	0.0	0.0	0.0	0.0
Nov-16	728.6	189.0	178.9	728.6	189.0	178.9	1,349,400	109,500	0.0	0.0	0.0	0.0
Dec-16	766.3	189.1	180.5	766.3	189.1	180.5	1,349,200	109,600	0.0	0.0	0.0	0.0
Jan-17	677.2	209.9	218.6	677.2	209.9	218.6	1,324,200	108,300	0.0	0.0	0.0	0.0
Feb-17	677.7	163.8	204.6	677.7	163.8	204.6	1,333,100	108,500	0.0	0.0	0.0	0.0
Mar-17	756.2	186.8	208.1	756.2	186.8	208.1	1,337,200	108,500	0.0	0.0	0.0	0.0
Apr-17	682.2	176.6	216.4	682.2	176.6	216.4	1,345,700	108,700	0.0	0.0	0.0	0.0
May-17	672.0	161.4	193.2	672.0	161.4	193.2	1,351,300	108,800	0.0	0.0	0.0	0.0
Jun-17	754.3	150.6	219.2	754.3	150.6	219.2	1,358,700	109,600	0.0	0.0	0.0	0.0
Jul-17	687.2	171.4	195.5	687.2	171.4	195.5	1,343,400	110,900	0.0	0.0	0.0	0.0
Aug-17	833.1	153.5	205.4	833.1	153.5	205.4	1,347,700	110,800	0.0	0.0	0.0	0.0
Sep-17	750.5	132.5	153.1	750.5	132.5	153.1	1,352,600	110,300	0.0	0.0	0.0	0.0
Oct-17	748.3	154.5	180.6	748.3	154.5	180.6	1,367,000	110,500	0.0	0.0	0.0	0.0
Nov-17	832.7	158.8	173.3	832.7	158.8	173.3	1,377,000	110,300	0.0	0.0	0.0	0.0
Dec-17	758.0	190.1	193.3	758.0	190.1	193.3	1,377,400	111,200	0.0	0.0	0.0	0.0
Jan-18	793.0	177.9	218.8	793.0	177.9	218.8	1,357,000	111,000	0.0	0.0	0.0	0.0
Feb-18	729.9	155.3	156.1	729.9	155.3	156.1	1,367,400	111,300	0.0	0.0	0.0	0.0
Mar-18	667.5	184.2	192.8	667.5	184.2	192.8	1,371,200	111,700	0.0	0.0	0.0	0.0
Apr-18	660.2	171.2	226.2	660.2	171.2	226.2	1,375,900	111,500	0.0	0.0	0.0	0.0
May-18	835.7	160.6	236.0	835.7	160.6	236.0	1,379,100	112,200	0.0	0.0	0.0	0.0
Jun-18	752.8	153.9	209.3	752.8	153.9	209.3	1,385,300	113,200	0.0	0.0	0.0	0.0
Jul-18	970.1	160.6	189.1	970.1	160.6	189.1	1,371,200	113,800	0.0	0.0	0.0	0.0
Aug-18	1,055.9	130.5	238.1	1,055.9	130.5	238.1	1,376,700	113,600	0.0	0.0	0.0	0.0
Sep-18	915.2	140.2	209.2	915.2	140.2	209.2	1,375,500	113,000	0.0	0.0	0.0	0.0
Oct-18	723.7	181.1	210.3	723.7	181.1	210.3	1,389,000	113,400	0.0	0.0	0.0	0.0
Nov-18	1,072.2	187.9	202.8	1,072.2	187.9	202.8	1,398,100	113,700	0.0	0.0	0.0	0.0
Dec-18	953.2	212.5	187.7	953.2	212.5	187.7	1,399,100	114,100	0.0	0.0	0.0	0.0
Jan-19	638.6	208.4	260.4	638.6	208.4	260.4	1,377,400	113,100	0.0	0.0	0.0	0.0
Feb-19	572.1	217.0	209.7	572.1	217.0	209.7	1,383,100	113,800	0.0	0.0	0.0	0.0
Mar-19	414.6	198.1	240.5	414.6	198.1	240.5	1,386,600	114,000	0.0	0.0	0.0	0.0
Apr-19	621.6	178.4	212.6	621.6	178.4	212.6	1,392,800	114,300	0.0	0.0	0.0	0.0
May-19	612.2	185.3	202.7	612.2	185.3	202.7	1,397,600	114,900	0.0	0.0	0.0	0.0
Jun-19	587.5	175.9	176.5	587.5	175.9	176.5	1,402,600	115,900	0.0	0.0	0.0	0.0
Jul-19	621.7	169.8	177.3	621.7	169.8	177.3	1,390,200	117,300	0.0	0.0	0.0	0.0
Aug-19	640.6	171.7	222.4	640.6	171.7	222.4	1,395,300	117,500	0.0	0.0	0.0	0.0
Sep-19	626.6	168.5	190.4	626.6	168.5	190.4	1,392,100	117,100	0.0	0.0	0.0	0.0
Oct-19	658.9	193.9	192.8	658.9	193.9	192.8	1,408,700	117,600	0.0	0.0	0.0	0.0
Nov-19	619.5	216.8	179.9	619.5	216.8	179.9	1,420,500	118,200	0.0	0.0	0.0	0.0
Dec-19	620.2	243.9	173.1	620.2	243.9	173.1	1,415,300	118,500	0.0	0.0	0.0	0.0
Jan-20	626.5	243.6	217.6	626.5	243.6	217.6	1,395,400	118,100	0.0	0.0	0.0	0.0
Feb-20	595.6	225.7	193.5	595.6	225.7	193.5	1,406,000	118,700	0.0	0.0	0.0	0.0

SDGE Noncore Commercial, Industrial and Small Cogeneration Gas Demand (Monthly)

Mar-20	589.6	235.9	220.6	589.6	235.9	220.6	1,391,200	118,300	0.0	0.0	0.0	0.0
Apr-20	548.4	191.1	248.0	548.4	191.1	248.0	1,165,200	110,400	0.0	0.0	0.0	0.0
May-20	625.7	165.1	198.3	625.7	165.1	198.3	1,179,500	111,000	0.0	0.0	0.0	0.0
Jun-20	571.1	167.2	193.0	571.1	167.2	193.0	1,235,300	113,000	0.0	0.0	0.0	0.0
Jul-20	688.4	160.9	222.2	688.4	160.9	222.2	1,234,600	113,600	0.0	0.0	0.0	0.0
Aug-20	700.8	164.1	187.4	700.8	164.1	187.4	1,243,900	113,500	0.0	0.0	0.0	0.0
Sep-20	669.2	162.8	208.7	669.2	162.8	208.7	1,258,300	113,300	0.0	0.0	0.0	0.0
Oct-20	671.8	171.0	216.1	671.8	171.0	216.1	1,278,500	113,200	0.0	0.0	0.0	0.0
Nov-20	575.8	203.3	207.0	575.8	203.3	207.0	1,291,300	113,500	0.0	0.0	0.0	0.0
Dec-20	570.2	228.6	209.6	570.2	228.6	209.6	1,284,700	113,200	0.0	0.0	0.0	0.0
Jan-21	612.3	218.1	202.1	612.3	218.1	202.1	1,246,700	113,300	0.0	0.0	0.0	0.0
Feb-21	568.8	191.3	211.1	568.8	191.3	211.1	1,276,500	114,600	0.0	0.0	0.0	0.0
Mar-21	626.4	274.4	242.3	626.4	274.4	242.3	1,284,400	114,300	0.0	0.0	0.0	0.0
Apr-21	535.1	237.2	242.9	535.1	237.2	242.9	1,293,200	114,500	0.0	0.0	0.0	0.0
May-21	630.0	213.6	216.2	630.0	213.6	216.2	1,297,100	113,900	0.0	0.0	0.0	0.0
Jun-21	597.9	189.3	250.8	597.9	189.3	250.8	1,301,100	115,700	0.0	0.0	0.0	0.0
Jul-21	664.4	154.7	196.2	664.4	154.7	196.2	1,296,900	114,500	0.0	0.0	0.0	0.0
Aug-21	659.5	163.3	216.4	659.5	163.3	216.4	1,305,400	113,900	0.0	0.0	0.0	0.0
Sep-21	661.7	158.6	163.9	661.7	158.6	163.9	1,312,800	113,100	0.0	0.0	0.0	0.0
Oct-21	566.7	213.4	188.7	566.7	213.4	188.7	1,339,600	113,800	0.0	0.0	0.0	0.0
Nov-21	603.3	174.5	240.7	603.3	174.5	240.7	1,350,829	114,381	0.0	0.0	0.0	0.0
Dec-21	620.3	234.2	248.2	620.3	234.2	248.2	1,345,873	114,668	0.0	0.0	0.0	0.0
Jan-22	617.4	223.4	231.4	622.5	224.0	233.3	1,320,023	113,358	-0.7	-0.6	-5.1	-1.3
Feb-22	634.8	223.4	231.0	640.0	224.0	232.9	1,352,041	115,187	-0.7	-0.6	-5.2	-1.3
Mar-22	641.1	220.4	225.5	646.4	221.1	227.3	1,358,158	115,417	-0.7	-0.6	-5.3	-1.2
Apr-22	653.4	218.6	224.1	658.7	219.2	226.0	1,365,722	116,935	-0.7	-0.6	-5.4	-1.2
May-22	651.2	216.6	218.9	656.5	217.3	220.7	1,368,506	116,088	-0.7	-0.6	-5.3	-1.2
Jun-22	662.1	215.2	218.5	667.6	215.9	220.3	1,371,720	117,684	-0.7	-0.6	-5.4	-1.2
Jul-22	653.5	213.3	212.7	658.9	214.0	214.5	1,369,114	115,917	-0.7	-0.6	-5.4	-1.2
Aug-22	651.5	212.8	209.5	656.8	213.5	211.2	1,373,462	115,384	-0.7	-0.6	-5.3	-1.1
Sep-22	648.0	212.5	206.2	653.3	213.2	207.9	1,377,508	114,646	-0.7	-0.6	-5.3	-1.1
Oct-22	654.6	215.6	206.3	660.0	216.3	208.0	1,402,438	115,715	-0.7	-0.6	-5.4	-1.1
Nov-22	657.1	216.2	205.4	662.5	216.8	207.1	1,409,808	116,091	-0.7	-0.6	-5.4	-1.1
Dec-22	657.8	214.3	204.3	663.2	215.0	206.0	1,400,614	116,169	-0.7	-0.6	-5.4	-1.1
Jan-23	646.7	208.9	199.3	653.2	210.4	201.8	1,372,723	114,382	-1.5	-1.2	-6.5	-1.3
Feb-23	657.5	213.0	201.5	664.1	214.4	204.1	1,400,995	116,270	-1.5	-1.2	-6.6	-1.3
Mar-23	659.2	212.9	201.2	665.8	214.4	203.7	1,402,099	116,546	-1.5	-1.2	-6.6	-1.3
Apr-23	667.2	212.7	202.8	673.9	214.1	205.4	1,401,673	117,938	-1.5	-1.2	-6.7	-1.3
May-23	663.7	212.6	201.2	670.3	214.1	203.7	1,402,228	117,310	-1.5	-1.2	-6.7	-1.3
Jun-23	674.1	212.6	203.8	680.9	214.0	206.3	1,402,660	119,155	-1.5	-1.2	-6.8	-1.3
Jul-23	669.3	211.7	201.9	676.0	213.2	204.4	1,397,562	118,290	-1.5	-1.2	-6.7	-1.3
Aug-23	663.6	212.0	199.8	670.3	213.4	202.3	1,399,552	117,282	-1.5	-1.2	-6.7	-1.3
Sep-23	656.8	212.1	197.4	663.4	213.5	199.9	1,400,617	116,076	-1.5	-1.2	-6.6	-1.3
Oct-23	658.6	215.2	197.7	665.3	216.7	200.2	1,421,682	116,403	-1.5	-1.2	-6.6	-1.3
Nov-23	659.9	216.2	197.8	666.5	217.6	200.3	1,428,053	116,624	-1.5	-1.2	-6.6	-1.3
Dec-23	659.5	214.6	197.5	666.1	216.0	200.0	1,417,672	116,545	-1.5	-1.2	-6.6	-1.3
Jan-24	645.4	209.0	192.8	654.2	211.4	196.2	1,387,319	114,466	-2.4	-1.8	-8.8	-1.7
Feb-24	655.9	213.5	195.8	664.9	215.8	199.3	1,416,673	116,331	-2.4	-1.8	-8.9	-1.7
Mar-24	657.4	213.7	196.1	666.3	216.1	199.6	1,418,421	116,581	-2.4	-1.8	-8.9	-1.7
Apr-24	664.8	213.8	198.2	673.8	216.2	201.7	1,418,927	117,899	-2.4	-1.8	-9.0	-1.7
May-24	661.4	214.0	197.0	670.4	216.3	200.6	1,419,930	117,296	-2.4	-1.8	-9.0	-1.7
Jun-24	671.9	214.1	200.1	681.1	216.4	203.7	1,420,630	119,164	-2.4	-1.8	-9.1	-1.7
Jul-24	667.3	213.4	198.7	676.3	215.7	202.2	1,416,015	118,338	-2.4	-1.8	-9.1	-1.7
Aug-24	661.6	213.6	196.9	670.6	216.0	200.4	1,417,799	117,340	-2.4	-1.8	-9.0	-1.7
Sep-24	654.9	213.8	194.8	663.8	216.1	198.3	1,418,775	116,142	-2.4	-1.8	-8.9	-1.7
Oct-24	657.0	217.1	195.4	665.9	219.4	198.9	1,440,402	116,514	-2.4	-1.8	-8.9	-1.7
Nov-24	658.1	217.9	195.7	667.0	220.3	199.2	1,445,956	116,710	-2.4	-1.8	-8.9	-1.7
Dec-24	657.5	216.2	195.5	666.4	218.6	199.0	1,434,816	116,606	-2.4	-1.8	-8.9	-1.7
Jan-25	644.4	210.6	191.1	654.5	213.9	195.4	1,403,938	114,518	-3.3	-2.4	-10.1	-1.9
Feb-25	654.7	215.0	194.2	664.9	218.3	198.5	1,433,172	116,342	-3.3	-2.4	-10.3	-1.9
Mar-25	655.9	215.2	194.5	666.1	218.5	198.8	1,434,464	116,551	-3.3	-2.4	-10.3	-1.9
Apr-25	663.2	215.1	196.7	673.6	218.4	201.0	1,433,871	117,858	-3.3	-2.4	-10.4	-1.9
May-25	659.4	215.3	195.5	669.7	218.5	199.8	1,434,683	117,181	-3.3	-2.4	-10.3	-1.9
Jun-25	669.5	215.3	198.6	680.0	218.6	202.9	1,435,154	118,972	-3.3	-2.4	-10.5	-2.0
Jul-25	664.1	214.5	196.9	674.5	217.8	201.3	1,429,841	118,021	-3.3	-2.4	-10.4	-2.0
Aug-25	658.4	214.8	195.2	668.7	218.1	199.5	1,431,665	117,003	-3.3	-2.4	-10.3	-1.9
Sep-25	651.6	215.0	193.1	661.8	218.3	197.4	1,432,855	115,786	-3.3	-2.4	-10.2	-1.9
Oct-25	653.1	218.3	193.6	663.3	221.6	197.9	1,454,897	116,062	-3.3	-2.4	-10.2	-1.9
Nov-25	654.5	219.2	194.0	664.7	222.5	198.3	1,460,536	116,307	-3.3	-2.4	-10.3	-1.9
Dec-25	654.2	217.5	193.9	664.4	220.8	198.2	1,449,434	116,253	-3.3	-2.4	-10.2	-1.9
Jan-26	641.6	211.9	189.7	652.6	216.1	194.7	1,418,527	114,189	-4.2	-2.9	-11.1	-2.1
Feb-26	652.3	216.4	192.9	663.5	220.6	197.9	1,448,144	116,089	-4.2	-2.9	-11.2	-2.1
Mar-26	653.9	216.6	193.4	665.1	220.8	198.4	1,449,760	116,379	-4.2	-2.9	-11.3	-2.1
Apr-26	661.6	216.6	195.7	673.0	220.8	200.8	1,449,414	117,760	-4.2	-2.9	-11.4	-2.1
May-26	658.3	216.7	194.7	669.7	220.9	199.7	1,450,371	117,174	-4.2	-2.9	-11.3	-2.1
Jun-26	668.9	216.8	197.9	680.5	221.0	203.0	1,450,940	119,057	-4.2	-2.9	-11.5	-2.2
Jul-26	664.5	216.0	196.6	675.9	220.2	201.6	1,445,858	118,265	-4.2	-2.9	-11.4	-2.2
Aug-26	658.9	216.3	194.9	670.2	220.5	199.9	1,447,308	117,267	-4.2	-2.9	-11.3	-2.1
Sep-26	652.1	216.4	192.9	663.4	220.6	197.9	1,448,392	116,070	-4.2	-2.9	-11.2	-2.1
Oct-26	653.9	220.0	193.4	665.1	224.1	198.4	1,471,498	116,376	-4.2	-2.9	-11.3	-2.1
Nov-26	655.3	220.6	193.8	666.6	224.8	198.8	1,475,947	116,638	-4.2	-2.9	-11.3	-2.1
Dec-26	655.1	218.7	193.7	666.4	222.9	198.8	1,463,560	116,599	-4.2	-2.9	-11.3	-2.1
Jan-27	642.5	212.6	189.5	654.9	217.8	195.3	1,429,739	114,583	-5.2	-3.5	-12.4	-2.3
Feb-27	653.1	217.2	192.7	665.6	222.4	198.5	1,460,071	116,467	-5.2	-3.5	-12.6	-2.4
Mar-27	654.6	217.5	193.1	667.2	222.7	199.0	1,462,236	116,735	-5.2	-3.5	-12.6	-2.4
Apr-27	662.3	217.7	195.4	675.0	222.9	201.3	1,463,349	118,104	-5.2	-3.5	-12.7	-2.4
May-27	658.8	217.8	194.4	671.5	223.0	200.3	1,463,814	117,485	-5.2	-3.5	-12.7	-2.4

SDGE Noncore Commercial, Industrial and Small Cogeneration Gas Demand (Monthly)

Jun-27	669.2	217.8	197.5	682.1	223.0	203.4	1,463,849	119,341	-5.2	-3.5	-12.9	-2.4
Jul-27	664.5	216.9	196.1	677.3	222.1	202.0	1,457,832	118,504	-5.2	-3.5	-12.8	-2.4
Aug-27	658.8	217.0	194.4	671.5	222.2	200.3	1,459,015	117,484	-5.2	-3.5	-12.7	-2.4
Sep-27	652.0	217.2	192.3	664.5	222.4	198.2	1,459,875	116,266	-5.2	-3.5	-12.5	-2.4
Oct-27	653.8	220.5	192.9	666.4	225.7	198.8	1,481,872	116,599	-5.2	-3.5	-12.6	-2.4
Nov-27	654.9	221.3	193.2	667.5	226.5	199.1	1,487,092	116,795	-5.2	-3.5	-12.6	-2.4
Dec-27	654.3	219.5	193.1	666.9	224.7	198.9	1,475,333	116,690	-5.2	-3.5	-12.6	-2.4
Jan-28	641.3	213.7	188.7	655.0	219.9	195.3	1,443,748	114,596	-6.2	-4.1	-13.6	-2.6
Feb-28	651.5	218.2	191.8	665.4	224.4	198.5	1,473,461	116,425	-6.2	-4.1	-13.9	-2.6
Mar-28	652.7	218.4	192.2	666.6	224.6	198.8	1,474,743	116,637	-6.2	-4.1	-13.9	-2.6
Apr-28	660.0	218.3	194.3	674.1	224.5	201.0	1,474,098	117,939	-6.2	-4.1	-14.0	-2.6
May-28	656.3	218.4	193.2	670.3	224.6	199.9	1,474,424	117,274	-6.2	-4.1	-14.0	-2.6
Jun-28	666.4	218.4	196.3	680.6	224.6	203.0	1,474,352	119,080	-6.2	-4.1	-14.2	-2.7
Jul-28	661.2	217.4	194.7	675.3	223.6	201.4	1,468,032	118,159	-6.2	-4.1	-14.1	-2.6
Aug-28	655.5	217.6	193.0	669.5	223.8	199.7	1,469,206	117,134	-6.2	-4.1	-14.0	-2.6
Sep-28	648.7	217.7	190.9	662.5	223.9	197.6	1,470,044	115,910	-6.2	-4.1	-13.8	-2.6
Oct-28	650.3	221.1	191.4	664.2	227.3	198.1	1,492,217	116,210	-6.2	-4.1	-13.8	-2.6
Nov-28	651.5	221.9	191.8	665.4	228.1	198.4	1,497,342	116,421	-6.2	-4.1	-13.9	-2.6
Dec-28	651.0	220.0	191.6	664.9	226.3	198.3	1,485,380	116,332	-6.2	-4.1	-13.9	-2.6

Gas Demand Forecasts for the Combined, Electric Generation Rate Group By EG Rate Tier

The over-all gas demand forecasts for electric generation (under the EG rate category) are aggregated from the individual market segment forecasts for small cogeneration (capacity < 20 Mw), large cogeneration (capacity > 20 Mw) and Power Plant gas demand.

The gas demand forecast for small cogeneration is discussed in previous section. Small cogeneration gas demand is billed according to the two-tiered EG rate structure. The projected gas demand by tier assigns 39.845% of the total cogeneration demand to tier 1; the remaining 60.155% is assigned to tier 2. These ratios are calculated based on 2021 historical data. Tables 1a and 1b show the monthly forecasts of cogeneration gas demand by EG rate tier.

The gas demand forecasts for large cogeneration and Power Plant are provided by Mr. Huang based on the power market simulation model he uses. Forecast details are discussed by Mr. Huang in his prepared testimony and his workpapers. Large cogeneration and Power plant gas demand is also billed at the EG rate structure. Tables 2a and 2b show the monthly forecasts of power plant gas demand by EG rate tier

Using the August 2024 data as an example, the resulting EG-tier1 and EG-tier 2 forecasts of gas demand would be:

Tier 1:

$$\begin{aligned} \text{EG-Tier1_MDth} &= (263.6 \text{ MDth for Small CoGen}) \\ &+ (0.0 \text{ MDth for Large CoGen/Power Plant}) \\ &= (263.6 \text{ MDth}). \end{aligned}$$

Tier 2:

$$\begin{aligned} \text{EG-Tier2_MDth} &= (398.0 \text{ MDth for Small CoGen}) \\ &+ (2,313.3 \text{ MDth for Large CoGen/Power Plant}) \\ &= (2,711.3 \text{ MDth}). \end{aligned}$$

Note that the calculations above may reflect small rounding errors.

These results (noting that 1 MDth = 10 MTherms) are consistent with values 2,636 MTherms and data 27,113 MTherms, respectively, for tier1 and tier2 gas demand shown in the SDG&E consolidated gas demand forecast work papers for August 2024.

Table 1a Small Cogeneration Gas Demand (1/2)

Year	Month	Total Small CoGen (MDth)	Small CoGen Tier 1 (Mdth)	Small CoGen Tier 2 (Mdth)
2022	Jan	617.4	246.0	371.4
2022	Feb	634.8	252.9	381.8
2022	Mar	641.1	255.4	385.7
2022	Apr	653.4	260.3	393.0
2022	May	651.2	259.5	391.7
2022	Jun	662.1	263.8	398.3
2022	Jul	653.5	260.4	393.1
2022	Aug	651.5	259.6	391.9
2022	Sep	648.0	258.2	389.8
2022	Oct	654.6	260.8	393.8
2022	Nov	657.1	261.8	395.3
2022	Dec	657.8	262.1	395.7
2023	Jan	646.7	257.7	389.0
2023	Feb	657.5	262.0	395.6
2023	Mar	659.2	262.7	396.6
2023	Apr	667.2	265.8	401.3
2023	May	663.7	264.4	399.2
2023	Jun	674.1	268.6	405.5
2023	Jul	669.3	266.7	402.6
2023	Aug	663.6	264.4	399.2
2023	Sep	656.8	261.7	395.1
2023	Oct	658.6	262.4	396.2
2023	Nov	659.9	262.9	397.0
2023	Dec	659.5	262.8	396.7
2024	Jan	645.4	257.2	388.3
2024	Feb	655.9	261.4	394.6
2024	Mar	657.4	261.9	395.4
2024	Apr	664.8	264.9	399.9
2024	May	661.4	263.5	397.9
2024	Jun	671.9	267.7	404.2
2024	Jul	667.3	265.9	401.4
2024	Aug	661.6	263.6	398.0
2024	Sep	654.9	260.9	394.0
2024	Oct	657.0	261.8	395.2
2024	Nov	658.1	262.2	395.9
2024	Dec	657.5	262.0	395.5
2025	Jan	644.4	256.8	387.7
2025	Feb	654.7	260.9	393.8
2025	Mar	655.9	261.3	394.5
2025	Apr	663.2	264.3	399.0
2025	May	659.4	262.7	396.7
2025	Jun	669.5	266.8	402.7
2025	Jul	664.1	264.6	399.5
2025	Aug	658.4	262.3	396.1
2025	Sep	651.6	259.6	391.9
2025	Oct	653.1	260.2	392.9
2025	Nov	654.5	260.8	393.7
2025	Dec	654.2	260.7	393.5

Table 1b Small Cogeneration Gas Demand (2/2)

Year	Month	Total Small CoGen (MDth)	Small CoGen Tier 1 (Mdt)	Small CoGen Tier 2 (Mdt)
2026	Jan	641.6	255.6	385.9
2026	Feb	652.3	259.9	392.4
2026	Mar	653.9	260.5	393.3
2026	Apr	661.6	263.6	398.0
2026	May	658.3	262.3	396.0
2026	Jun	668.9	266.5	402.4
2026	Jul	664.5	264.8	399.7
2026	Aug	658.9	262.5	396.3
2026	Sep	652.1	259.8	392.3
2026	Oct	653.9	260.5	393.3
2026	Nov	655.3	261.1	394.2
2026	Dec	655.1	261.0	394.1
2027	Jan	642.5	256.0	386.5
2027	Feb	653.1	260.2	392.9
2027	Mar	654.6	260.8	393.8
2027	Apr	662.3	263.9	398.4
2027	May	658.8	262.5	396.3
2027	Jun	669.2	266.6	402.6
2027	Jul	664.5	264.8	399.7
2027	Aug	658.8	262.5	396.3
2027	Sep	652.0	259.8	392.2
2027	Oct	653.8	260.5	393.3
2027	Nov	654.9	261.0	394.0
2027	Dec	654.3	260.7	393.6
2028	Jan	641.3	255.5	385.8
2028	Feb	651.5	259.6	391.9
2028	Mar	652.7	260.1	392.7
2028	Apr	660.0	263.0	397.0
2028	May	656.3	261.5	394.8
2028	Jun	666.4	265.5	400.9
2028	Jul	661.2	263.5	397.8
2028	Aug	655.5	261.2	394.3
2028	Sep	648.7	258.5	390.2
2028	Oct	650.3	259.1	391.2
2028	Nov	651.5	259.6	391.9
2028	Dec	651.0	259.4	391.6

Table 2a Large Cogeneration / Power Plant Gas Demand (1/2)

Year	Month	Total Lg CoGen/PowerPlant (MDth)	Lg CoGen/PowerPlant Tier 1 (MdtH)	Lg CoGen/PowerPlant Tier 2 (MdtH)
2022	Jan	2,724.0	0.0	2,724.0
2022	Feb	2,378.0	0.0	2,378.0
2022	Mar	2,506.6	0.0	2,506.6
2022	Apr	2,377.9	0.0	2,377.9
2022	May	2,428.3	0.0	2,428.3
2022	Jun	2,528.2	0.0	2,528.2
2022	Jul	2,985.4	0.0	2,985.4
2022	Aug	3,230.0	0.0	3,230.0
2022	Sep	3,128.5	0.0	3,128.5
2022	Oct	2,862.4	0.0	2,862.4
2022	Nov	2,617.7	0.0	2,617.7
2022	Dec	2,871.4	0.8	2,870.6
2023	Jan	2,454.2	0.0	2,454.2
2023	Feb	2,124.1	0.0	2,124.1
2023	Mar	2,225.1	0.0	2,225.1
2023	Apr	2,061.2	0.0	2,061.2
2023	May	2,156.1	0.0	2,156.1
2023	Jun	2,225.2	0.0	2,225.2
2023	Jul	2,599.8	0.0	2,599.8
2023	Aug	2,760.5	0.0	2,760.5
2023	Sep	2,729.8	0.0	2,729.8
2023	Oct	2,531.6	0.0	2,531.6
2023	Nov	2,337.2	0.0	2,337.2
2023	Dec	2,497.6	0.0	2,497.6
2024	Jan	2,022.3	0.0	2,022.3
2024	Feb	1,886.7	0.0	1,886.7
2024	Mar	1,797.2	0.0	1,797.2
2024	Apr	1,659.4	0.0	1,659.4
2024	May	1,745.5	0.0	1,745.5
2024	Jun	1,839.0	0.0	1,839.0
2024	Jul	2,254.0	0.0	2,254.0
2024	Aug	2,313.3	0.0	2,313.3
2024	Sep	2,273.0	0.0	2,273.0
2024	Oct	2,164.7	0.0	2,164.7
2024	Nov	1,966.1	0.0	1,966.1
2024	Dec	2,120.8	0.0	2,120.8
2025	Jan	1,908.5	0.0	1,908.5
2025	Feb	1,545.5	0.0	1,545.5
2025	Mar	1,565.5	0.0	1,565.5
2025	Apr	1,388.0	0.0	1,388.0
2025	May	1,527.7	0.0	1,527.7
2025	Jun	1,782.1	0.0	1,782.1
2025	Jul	2,074.9	0.0	2,074.9
2025	Aug	2,067.8	0.0	2,067.8
2025	Sep	1,928.7	0.0	1,928.7
2025	Oct	1,893.9	0.0	1,893.9
2025	Nov	1,752.2	0.0	1,752.2
2025	Dec	1,952.0	0.0	1,952.0

Table 2b Large Cogeneration / Power Plant Gas Demand (2/2)

Year	Month	Total Lg CoGen/PowerPlant (MDth)	Lg CoGen/PowerPlant Tier 1 (Mdt)	Lg CoGen/PowerPlant Tier 2 (Mdt)
2026	Jan	1,777.1	0.0	1,777.1
2026	Feb	1,545.2	0.0	1,545.2
2026	Mar	1,611.2	0.0	1,611.2
2026	Apr	1,424.3	0.0	1,424.3
2026	May	1,422.8	0.0	1,422.8
2026	Jun	1,659.7	0.0	1,659.7
2026	Jul	2,032.3	0.0	2,032.3
2026	Aug	2,265.3	0.0	2,265.3
2026	Sep	2,090.9	0.0	2,090.9
2026	Oct	1,913.0	0.0	1,913.0
2026	Nov	1,662.7	0.0	1,662.7
2026	Dec	1,822.1	0.0	1,822.1
2027	Jan	1,769.6	0.0	1,769.6
2027	Feb	1,419.0	0.0	1,419.0
2027	Mar	1,591.4	0.0	1,591.4
2027	Apr	1,237.4	0.0	1,237.4
2027	May	1,391.0	0.0	1,391.0
2027	Jun	1,756.5	0.0	1,756.5
2027	Jul	2,089.7	0.0	2,089.7
2027	Aug	1,954.4	0.0	1,954.4
2027	Sep	2,183.3	0.0	2,183.3
2027	Oct	1,955.0	0.0	1,955.0
2027	Nov	1,674.4	0.0	1,674.4
2027	Dec	1,812.1	0.0	1,812.1
2028	Jan	1,663.7	0.0	1,663.7
2028	Feb	1,385.1	0.0	1,385.1
2028	Mar	1,351.8	0.0	1,351.8
2028	Apr	1,274.1	0.0	1,274.1
2028	May	1,326.1	0.0	1,326.1
2028	Jun	1,591.6	0.0	1,591.6
2028	Jul	1,841.1	0.0	1,841.1
2028	Aug	2,045.1	0.0	2,045.1
2028	Sep	1,913.6	0.0	1,913.6
2028	Oct	1,797.0	0.0	1,797.0
2028	Nov	1,584.0	0.0	1,584.0
2028	Dec	1,719.3	0.0	1,719.3

SoCalGas Other Wholesale Gas Demand

Gas Demand Forecast for Wholesale Customers Other than SDG&E

Workpapers for SDG&E are provided in separate sections as indicated in the table of contents. The supporting material provided below are for the following additional wholesale customers of SoCalGas: the City of Long Beach, Southwest Gas (SWG), the City of Vernon (COV) and ECOGAS, a wholesale customer located in Mexicali, Mexico.

THE CITY OF LONG BEACH

The forecast developed by the City of Long Beach’s gas demand for this CAP is provided below. The tables below show the monthly data from 2022 through 2028. The gas consumption shown for 2021 in the consolidated gas demand tables are recorded (billing month basis) deliveries to the City of Long Beach by SoCalGas.

Table CLB-1a - City of Long Beach Gas Demand (2022-2028) Average Year HDD:

Temp	Year	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6
Avg Hdd	2022	913.4	963.5	758.3	744.9	726.5	611.0
Avg Hdd	2023	917.5	967.8	762.0	748.9	730.4	614.5
Avg Hdd	2024	921.5	972.1	765.8	752.9	734.4	618.1
Avg Hdd	2025	925.6	976.4	769.6	756.9	738.3	621.7
Avg Hdd	2026	929.7	980.7	773.5	760.9	742.4	625.3
Avg Hdd	2027	933.8	985.1	777.3	765.0	746.4	628.9
Avg Hdd	2028	938.0	989.4	781.2	769.1	750.5	632.6

Table CLB-1b

Temp	Year	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
Avg Hdd	2022	602.7	549.9	571.6	614.8	808.6	1,149.5	9,014.7
Avg Hdd	2023	605.9	552.9	574.5	617.9	812.1	1,154.4	9,058.7
Avg Hdd	2024	609.1	555.8	577.4	621.0	815.7	1,159.5	9,103.1
Avg Hdd	2025	612.3	558.8	580.3	624.1	819.2	1,164.5	9,147.7
Avg Hdd	2026	615.5	561.8	583.3	627.2	822.7	1,169.6	9,192.7
Avg Hdd	2027	618.8	564.9	586.2	630.4	826.3	1,174.7	9,237.9
Avg Hdd	2028	622.1	567.9	589.2	633.6	829.9	1,179.8	9,283.4

Table CLB-2a - City of Long Beach Gas Demand (2022-2028) Cold Year HDD:

Temp	Year	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6
Cold Hdd	2022	1,022.8	1,073.2	827.6	798.0	758.0	629.5
Cold Hdd	2023	1,027.5	1,080.9	832.3	801.8	761.8	632.3
Cold Hdd	2024	1,031.3	1,085.6	836.1	806.6	765.7	636.1
Cold Hdd	2025	1,036.1	1,090.4	839.9	810.4	770.4	640.9
Cold Hdd	2026	1,040.9	1,093.2	844.7	814.2	774.2	643.8
Cold Hdd	2027	1,044.7	1,099.9	848.5	819.9	778.0	647.6
Cold Hdd	2028	1,049.4	1,104.7	853.3	822.8	782.8	651.4

Table CLB-2b

Temp	Year	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
Cold Hdd	2022	619.0	564.7	587.6	638.0	877.1	1,292.3	9,687.8
Cold Hdd	2023	622.8	567.6	589.5	641.9	880.9	1,297.0	9,736.3
Cold Hdd	2024	625.7	570.4	592.3	643.8	884.7	1,302.8	9,781.1
Cold Hdd	2025	628.5	574.2	596.1	647.6	888.5	1,308.5	9,831.6
Cold Hdd	2026	632.3	577.1	599.0	650.4	892.3	1,314.2	9,876.3
Cold Hdd	2027	635.2	580.0	602.8	654.2	896.1	1,320.8	9,927.8
Cold Hdd	2028	639.0	582.8	604.7	657.1	900.9	1,326.6	9,975.4

SOUTHWEST GAS

The gas demand forecasts for Southwest Gas (SWG) were provided by SWG for 2022 through 2028; the gas consumption shown for 2021 in the consolidated gas demand tables are recorded deliveries (billing month basis and excluded exchange deliveries) to SWG by SoCalGas. The gas demand shown for SWG represents the gas deliveries that SoCalGas makes to SWG and does not include gas transacted under the exchange agreement between SoCalGas and SWG.

Table SWG-1a - SCG Deliveries to SWG (2022-2028) Average Year HDD:

Temp	Year	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6
Avg Hdd	2022	1,160.7	948.6	749.9	524.9	424.1	301.0
Avg Hdd	2023	1,172.0	957.8	757.1	529.9	428.2	303.9
Avg Hdd	2024	1,183.6	979.0	764.5	535.0	432.4	306.8
Avg Hdd	2025	1,195.2	976.6	771.9	540.2	436.5	309.7
Avg Hdd	2026	1,206.8	986.0	779.3	545.3	440.7	312.7
Avg Hdd	2027	1,218.4	995.4	786.6	550.4	444.8	315.6
Avg Hdd	2028	1,230.0	1,017.2	794.0	555.5	449.0	318.5

Table SWG-1b

Temp	Year	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
Avg Hdd	2022	257.9	280.2	285.7	425.5	710.3	1,149.4	7,218.2
Avg Hdd	2023	260.3	282.8	288.5	429.5	717.2	1,160.8	7,288.1
Avg Hdd	2024	262.8	285.5	291.2	433.7	724.2	1,172.2	7,370.9
Avg Hdd	2025	265.3	288.2	293.9	437.8	731.2	1,183.6	7,430.0
Avg Hdd	2026	267.7	290.9	296.7	441.9	738.1	1,195.0	7,501.0
Avg Hdd	2027	270.2	293.6	299.4	446.0	745.1	1,206.4	7,572.0
Avg Hdd	2028	272.7	296.2	302.2	450.1	752.0	1,217.8	7,655.3

Table SWG-2a - SCG Deliveries to SWG (2022-2028) Cold Year HDD:

Temp	Year	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6
Cold Hdd	2022	1,270.0	1,012.1	852.7	583.8	442.3	307.5
Cold Hdd	2023	1,282.4	1,021.9	860.9	589.4	446.6	310.4
Cold Hdd	2024	1,295.1	1,044.6	869.3	595.1	450.9	313.4
Cold Hdd	2025	1,307.8	1,042.0	877.7	600.8	455.2	316.3
Cold Hdd	2026	1,320.5	1,052.0	886.1	606.5	459.6	319.3
Cold Hdd	2027	1,333.2	1,062.1	894.5	612.2	463.9	322.3
Cold Hdd	2028	1,345.9	1,085.3	902.9	617.9	468.3	325.3

Table SWG-2b

Temp	Year	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
Cold Hdd	2022	257.9	280.2	294.6	449.0	796.8	1,229.4	7,776.2
Cold Hdd	2023	260.3	282.8	297.4	453.3	804.5	1,241.6	7,851.5
Cold Hdd	2024	262.8	285.5	300.2	457.6	812.3	1,253.8	7,940.6
Cold Hdd	2025	265.3	288.2	303.0	462.0	820.1	1,266.0	8,004.4
Cold Hdd	2026	267.7	290.9	305.9	466.3	827.9	1,278.2	8,080.9
Cold Hdd	2027	270.2	293.6	308.7	470.6	835.7	1,290.4	8,157.5
Cold Hdd	2028	272.7	296.2	311.5	475.0	843.5	1,302.6	8,247.0

THE CITY OF VERNON

The two tables below show the monthly forecast for the city of Vernon’s gas demand.

Table COV-a - City of Vernon Demand (2022-2028):

Year	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6
2022	804.0	666.5	714.9	769.1	770.2	804.7
2023	788.7	686.3	671.9	729.7	747.7	794.8
2024	790.6	721.9	730.6	691.3	739.2	782.2
2025	827.0	704.8	721.3	729.5	735.3	810.7
2026	874.3	703.8	730.2	738.2	761.6	826.8
2027	806.2	729.3	739.7	761.5	765.9	842.0
2028	840.1	739.4	754.0	745.5	755.6	795.3

Table COV-b

Year	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
2022	857.8	872.6	816.5	856.5	750.6	810.1	9,493.4
2023	847.5	878.0	802.9	871.0	818.8	792.1	9,429.3
2024	912.2	859.7	821.1	903.6	775.0	826.3	9,553.7
2025	877.3	876.1	867.7	870.1	792.7	817.8	9,630.3
2026	912.4	854.6	855.0	874.3	806.7	805.2	9,743.1
2027	893.5	900.5	858.7	870.0	853.0	868.6	9,888.9
2028	895.9	857.7	845.2	919.5	831.0	827.8	9,807.1

ECOGAS

The monthly data for year 2021 shown in the consolidated gas demand tables are from SoCalGas' recorded data; the monthly forecasts for years 2022 through 2028 were provided from this wholesale customer's staff. These values are the same as those shown in the SoCalGas Consolidated Gas Demand Forecast workpapers.

Table ECOGAS-a Demand (2022-2028):

Year	MDTH1	MDTH2	MDTH3	MDTH4	MDTH5	MDTH6
2022	973.0	865.2	1,079.9	1,057.7	1,087.2	1,296.7
2023	1,044.4	937.0	1,151.7	1,061.1	1,090.6	1,300.1
2024	1,048.0	940.7	1,155.5	1,065.0	1,094.5	1,304.1
2025	1,052.2	944.9	1,159.7	1,069.2	1,098.8	1,308.4
2026	1,056.7	949.5	1,164.4	1,073.9	1,103.5	1,313.1
2027	1,060.8	953.7	1,168.6	1,078.2	1,107.9	1,317.5
2028	1,065.0	957.9	1,172.9	1,082.5	1,112.2	1,321.8

Table ECOGAS-b

Year	MDTH7	MDTH8	MDTH9	MDTH10	MDTH11	MDTH12	TOTAL
2022	1,327.2	1,341.4	1,278.6	1,099.5	1,072.7	1,096.5	13,575.7
2023	1,330.6	1,344.9	1,282.0	1,102.9	1,076.1	1,100.0	13,821.6
2024	1,334.6	1,348.9	1,286.1	1,107.0	1,080.3	1,104.2	13,868.8
2025	1,338.9	1,353.2	1,290.4	1,111.4	1,084.6	1,108.6	13,920.4
2026	1,343.7	1,358.0	1,295.2	1,116.2	1,089.5	1,113.6	13,977.3
2027	1,348.0	1,362.4	1,299.6	1,120.7	1,094.0	1,118.2	14,029.6
2028	1,352.4	1,366.8	1,304.1	1,125.1	1,098.5	1,122.8	14,082.1

**SoCalGas Company Use Fuel,
UAF and “Dth/Mcf” Conversion**

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- I. SoCalGas Conversion Between Energy and Volumetric Units
- II. SoCalGas Company-Use-Fuel (Co-Use-Fuel) as Percent of Receipts
- III. SoCalGas Un-Accounted-For (UAF) as a Percent of Receipts
- IV. SoCalGas Calculations of Company Use Fuel and Un-Accounted-For Load

I. SoCalGas Conversion Between Energy and Volumetric Units

The estimated conversion of Dth to Mcf was calculated from SoCalGas' system-wide gas consumption for year 2021. The value we've used is 1.0322.

This conversion factor is used to develop a volumetric (e.g., Mcf unit) load estimate from the gas demand forecasts which are developed on an energy (e.g., Dth unit) basis.

II. SoCalGas Company-Use-Fuel (Co-Use-Fuel) as Percent of Receipts

For SoCalGas, data on gas consumed for Company uses are tracked via the SoCalGas' gas accounting system. Three categories of use are identified: Transmission, Storage and "Other". Further, to facilitate the calculations of gas consumed for Company uses, a simple percentage is calculated using the total gas available for disposition as the denominator. These percentages are calculated over the time frame of April 2019 through March 2022. Table 1 below shows the monthly data and the summary calculations.

Table 1

SoCalGas Company Use Fuel Data as Percentage of Receipts

Month	Transmission (Dth)	Storage (Dth)	"Other" (Dth)	Total (Dth)	Receipts Net Avail.-for Disposition (Dth)
Apr-19	79,184	41,514	24,046	144,744	65,390,992
May-19	93,234	118,592	23,920	235,747	66,468,400
Jun-19	84,102	123,463	26,962	234,527	60,568,601
Jul-19	104,006	93,736	25,078	222,820	66,211,604
Aug-19	129,226	85,474	20,490	235,190	73,041,906
Sep-19	131,481	106,399	21,705	259,584	67,805,793
Oct-19	134,140	91,312	19,151	244,602	69,261,592
Nov-19	107,600	40,752	27,001	175,353	80,354,491
Dec-19	159,579	40,202	18,443	218,224	97,661,275
Jan-20	131,602	34,468	21,555	187,625	95,721,417
Feb-20	116,458	64,516	22,142	203,116	80,987,482
Mar-20	94,422	50,109	18,024	162,555	85,589,247
Apr-20	84,306	66,520	19,661	170,487	67,546,814
May-20	96,806	73,928	27,523	198,257	58,872,847
Jun-20	115,129	101,789	25,982	242,900	60,438,885
Jul-20	112,198	68,450	20,472	201,120	69,356,992
Aug-20	150,943	65,658	21,335	237,936	77,381,192
Sep-20	115,220	78,645	28,634	222,499	72,043,277
Oct-20	120,813	61,207	25,645	207,665	74,742,738
Nov-20	113,283	41,672	26,732	181,686	80,127,713
Dec-20	139,364	39,096	22,317	200,778	92,908,234
Jan-21	146,098	38,555	23,153	207,806	92,101,106
Feb-21	77,553	25,721	23,901	127,175	72,214,251
Mar-21	131,824	44,865	24,162	200,851	87,085,590
Apr-21	107,384	70,065	25,959	203,409	69,800,043
May-21	136,419	95,386	23,050	254,856	66,779,838
Jun-21	173,968	95,805	22,143	291,916	68,362,660
Jul-21	165,236	69,571	24,164	258,971	76,767,304
Aug-21	138,828	65,966	25,130	229,924	73,667,337
Sep-21	153,768	55,311	25,878	234,957	67,783,363
Oct-21	44,553	31,137	25,772	101,462	72,857,374
Nov-21	156,007	51,905	24,698	232,611	73,645,417
Dec-21	197,539	22,983	23,209	243,731	100,232,953
Jan-22	170,017	41,856	24,590	236,463	92,634,461
Feb-22	73,885	43,516	25,865	143,266	79,127,817
Mar-22	90,307	56,402	24,514	171,223	76,822,888
36-Month (Apr-19 - Mar-22) Total:	4,376,484	2,296,546	853,006	7,526,036	2,732,363,897
As %-of-Receipts:	0.160%	0.084%	0.031%	0.275%	

III. SoCalGas Un-Accounted-For (UAF) as a Percent of Receipts

The data in Table 2 below provide monthly data to calculate UAF. UAF is calculated from this data as: $UAF = \text{Recorded Receipts} - \text{Recorded Deliveries}$. The percentage we use is based on the 36-month sums of the respective component terms of the formula above.

Table 2

SoCalGas Company Monthly Un-Accounted-For (UAF)

Month	Recorded Receipts (Dth)	Recorded Deliveries (Dth)	Un-Accounted-For (UAF) = Receipts - Deliveries (Dth)	UAF as % of Receipts (%)
Apr-19	65,390,992	65,070,265	320,728	0.49%
May-19	66,468,400	66,891,017	-422,617	-0.64%
Jun-19	60,568,601	59,746,120	822,481	1.36%
Jul-19	66,211,604	66,347,048	-135,443	-0.20%
Aug-19	73,041,906	73,194,313	-152,406	-0.21%
Sep-19	67,805,793	68,170,696	-364,904	-0.54%
Oct-19	69,261,592	69,600,296	-338,704	-0.49%
Nov-19	80,354,491	80,054,268	300,223	0.37%
Dec-19	97,661,275	95,302,242	2,359,033	2.42%
Jan-20	95,721,417	94,127,780	1,593,637	1.66%
Feb-20	80,987,482	79,596,132	1,391,350	1.72%
Mar-20	85,589,247	85,746,561	-157,314	-0.18%
Apr-20	67,546,814	67,648,265	-101,451	-0.15%
May-20	58,872,847	58,701,700	171,148	0.29%
Jun-20	60,438,885	59,908,403	530,482	0.88%
Jul-20	69,356,992	69,621,091	-264,099	-0.38%
Aug-20	77,381,192	77,361,839	19,353	0.03%
Sep-20	72,043,277	71,049,512	993,765	1.38%
Oct-20	74,742,738	74,408,070	334,669	0.45%
Nov-20	80,127,713	79,679,523	448,190	0.56%
Dec-20	92,908,234	90,560,804	2,347,429	2.53%
Jan-21	92,101,106	90,695,611	1,405,495	1.53%
Feb-21	72,214,251	70,641,294	1,572,958	2.18%
Mar-21	87,085,590	86,260,893	824,697	0.95%
Apr-21	69,800,043	69,209,180	590,863	0.85%
May-21	66,779,838	66,207,467	572,372	0.86%
Jun-21	68,362,660	68,561,208	-198,547	-0.29%
Jul-21	76,767,304	77,309,368	-542,064	-0.71%
Aug-21	73,667,337	73,471,409	195,927	0.27%
Sep-21	67,783,363	67,715,056	68,307	0.10%
Oct-21	72,857,374	71,900,967	956,407	1.31%
Nov-21	73,645,417	72,296,984	1,348,433	1.83%
Dec-21	100,232,953	99,462,614	770,340	0.77%
Jan-22	92,634,461	89,811,057	2,823,404	3.05%
Feb-22	79,127,817	78,860,998	266,819	0.34%
Mar-22	76,822,888	75,672,277	1,150,611	1.50%
Total	2,732,363,897	2,710,862,327	21,501,570	0.787%

IV. SoCalGas Calculations of Company Use and Un-Accounted-For Load

SoCalGas prepares forecasts of gas demand—gas received through customers’ meters. Consequently, to calculate the projected quantities of Co-Use-Fuel and UAF, the basis (denominator) for the percentages developed above needs to be changed so they represent gas load as a *percentage of gas demand*—not gas receipts (or gas available for disposition).

The equation below states an identity:

$$(1) \quad Q_{\text{out}} = Q_{\text{in}} - (\text{Co-Use-Fuel}) - (\text{UAF}), \text{ where}$$

Q_{out} = Gas Demand through customers’ meters,

Q_{in} = Gas Available for Disposition (“receipts”),

Co-Use-Fuel = $F \times Q_{\text{in}}$,

UAF = $U \times Q_{\text{in}}$,

F = Co-Use-Fuel as a proportion (or %) of Q_{in} , and

U = UAF as a proportion (or %) of Q_{in} .

By substituting the relationships for Co-Use-Fuel and UAF into equation (1), the following result yields a relationship between Q_{out} and Q_{in} :

$$(2) \quad Q_{\text{out}} = Q_{\text{in}} (1 - F - U), \text{ and}$$

$$(3) \quad Q_{\text{in}} = Q_{\text{out}} [1 / (1 - F - U)].$$

These equations will be used to change the basis (denominator) of the percentages of Co-Use-Fuel and UAF from a “receipts basis” to a “demand basis.”

The total amount of gas load for Co-Use-Fuel or UAF is numerically the same regardless of the basis for the respective percentages:

$$(4) \quad \text{Co-Use-Fuel} = F \times Q_{in} = f \times Q_{out}, \text{ and substituting for } Q_{in} \text{ from (3) yields,}$$

$$(5) \quad F \times Q_{out} [1 / (1 - F - U)] = f \times Q_{out},$$

$$(5') \quad [F / (1 - F - U)] \times Q_{out} = f \times Q_{out}.$$

Consequently, the percentage of gas demand to use to calculate Co-Use-Fuel is:

$$(6) \quad f = [F / (1 - F - U)]; \text{ similarly,}$$

the percentage of gas demand to use to calculate Co-Use-Fuel is:

$$(7) \quad u = [U / (1 - F - U)].$$

Since Co-Use-Fuel is separated into several components (denoted with subscript "c" in the formulas below), the component loads also can be calculated from gas demand using the following formula:

$$(8) \quad f_c = [F_c / (1 - F - U)]; \text{ where } F = \sum_{i=1, \dots, N} (F_i), \text{ or}$$

$$(9) \quad f_c = (F_c / F) \times f.$$

Example: From the Co-Use-Fuel percentage in Table 1 and the UAF percentage of Table 2, we calculate:

$$f = 0.278\% = [0.275\% / (100\% - 0.275\% - 0.787\%)],$$

$$u = 0.795\% = [0.787\% / (100\% - 0.275\% - 0.787\%)], \text{ and}$$

Therefore, the Co-Use-Fuel percentage of gas demand (denominator) is 0.278%; and UAF percentage of gas demand (denominator) is 0.795%.

**SDG&E Company Use Fuel,
UAF and “Dth/Mcf” Conversion**

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- III. SDG&E Un-Accounted-For (UAF) as a Percent of Receipts
- IV. SDG&E Calculations of Company Use Fuel and Un-Accounted-For Load

I. SDG&E Conversion Between Energy and Volumetric Units

The estimated conversion of Dth to Mcf was calculated from SDG&E's system-wide gas consumption for year 2021. The value is 1.0298 Dth/Mcf.

This conversion factor is used to develop a volumetric (e.g., Mcf unit) load estimate from the gas demand forecasts which are developed on an energy (e.g., Dth unit) basis.

II. SDG&E Company-Use-Fuel (Co-Use-Fuel) as Percent of Receipts

For SDG&E, data on gas consumed for Company uses are tracked via the SDG&E gas accounting system. Three categories of use are identified: Transmission, Storage and "Other". Further, to facilitate the calculations of gas consumed for Company uses, a simple percentage is calculated using the total gas available for disposition as the denominator. These percentages were calculated over the time frame of April 2019 through March 2022. Table 1 below shows the monthly data and the summary calculations.

Table 1

SDG&E Company Use Fuel Data as Percentage of "Receipts"

Month	Transmission (Dth)	Storage (Dth)	"Other" (Dth)	Total (Dth)	Receipts PGA: Net Avail.- for Disposition (Dth)
Apr-19	6,345	0	5,158	11,502	6,352,940
May-19	8,772	0	5,322	14,094	6,104,559
Jun-19	4,666	0	5,837	10,504	5,738,661
Jul-19	6,260	0	4,784	11,044	5,544,210
Aug-19	12,312	0	4,998	17,310	7,031,821
Sep-19	9,162	0	4,946	14,109	6,270,459
Oct-19	9,917	0	5,143	15,060	6,919,305
Nov-19	35,704	0	5,362	41,066	8,141,931
Dec-19	33,746	0	6,003	39,749	8,833,814
Jan-20	30,796	0	6,880	37,676	8,702,959
Feb-20	42,873	0	6,350	49,223	8,882,870
Mar-20	42,231	0	5,609	47,840	10,027,297
Apr-20	19,826	0	5,851	25,677	7,252,146
May-20	18,520	0	3,735	22,255	6,357,878
Jun-20	17,002	0	5,922	22,924	6,615,059
Jul-20	23,744	0	5,417	29,161	7,843,425
Aug-20	20,872	0	6,059	26,931	8,196,267
Sep-20	25,511	0	4,967	30,478	8,220,492
Oct-20	30,478	0	4,485	34,962	8,318,188
Nov-20	39,325	0	4,020	43,345	9,523,187
Dec-20	48,017	0	5,073	53,091	10,710,917
Jan-21	46,976	0	5,619	52,595	9,988,415
Feb-21	26,100	0	6,634	32,734	7,540,819
Mar-21	33,850	0	5,541	39,390	9,138,854
Apr-21	2,449	0	6,120	8,569	6,996,368
May-21	2,458	0	5,907	8,364	7,535,691
Jun-21	21,236	0	6,055	27,291	7,380,343
Jul-21	20,414	0	5,781	26,195	8,485,147
Aug-21	6,952	0	5,899	12,851	7,262,875
Sep-21	3,284	0	6,028	9,312	6,967,082
Oct-21	2,656	0	6,499	9,155	8,547,130
Nov-21	1,919	0	6,680	8,599	8,841,932
Dec-21	115,257	0	7,962	123,219	11,123,855
Jan-22	54,015	0	7,362	61,376	9,742,724
Feb-22	50,591	0	6,957	57,548	9,522,151
Mar-22	42,540	0	9,198	51,738	9,513,677
36-Month (Apr-19 - Mar-22) Total:	916,776	0	210,161	1,126,937	290,175,445
As %-of-Receipts:	0.316%	0.000%	0.072%	0.388%	

III. SDG&E Un-Accounted-For (UAF) as a Percent of Receipts

The data in Table 2 below provide monthly data to calculate UAF. UAF is calculated from this data as:

$$\begin{aligned} \text{Adjusted-UAF} &= \text{Recorded Receipts} - \text{Recorded Deliveries} \\ &+ \text{Billing Adjustments-to-UAF.} \end{aligned}$$

The UAF percentages in Table 2 are calculated as Adjusted-UAF relative to Recorded Receipts. The percentage we use is based on the sums of the respective component terms of the formula above for all months of the data.

Table 2**SDG&E Monthly Un-Accounted-For (UAF)**

Month	Recorded Receipts	Recorded Deliveries	Billing Adjustments to UAF	Adjusted UAF = (Receipts less Deliveries) plus Bill Adj	UAF % of Receipts
	(Dth)	(Dth)	(Dth)	(Dth)	(%)
Apr-19	6,352,940	7,281,423	900,456	-28,027	-0.44%
May-19	6,104,559	6,071,322	-200,232	-166,995	-2.74%
Jun-19	5,738,661	6,210,527	628,683	156,817	2.73%
Jul-19	5,544,210	5,586,768	182,324	139,767	2.52%
Aug-19	7,031,821	6,299,589	-621,360	110,871	1.58%
Sep-19	6,270,459	5,837,344	-260,401	172,714	2.75%
Oct-19	6,919,305	5,876,557	-905,801	136,947	1.98%
Nov-19	8,141,931	6,290,350	-1,554,247	297,334	3.65%
Dec-19	8,833,814	8,492,759	79,927	420,982	4.77%
Jan-20	8,702,959	10,160,053	1,897,398	440,305	5.06%
Feb-20	8,882,870	9,270,561	714,605	326,914	3.68%
Mar-20	10,027,297	6,417,071	-3,306,571	303,655	3.03%
Apr-20	7,252,146	10,732,296	3,732,008	251,858	3.47%
May-20	6,357,878	6,734,504	509,027	132,401	2.08%
Jun-20	6,615,059	6,698,430	192,732	109,361	1.65%
Jul-20	7,843,425	6,905,321	-898,373	39,731	0.51%
Aug-20	8,196,267	8,097,433	-45,767	53,067	0.65%
Sep-20	8,220,492	8,312,195	249,432	157,729	1.92%
Oct-20	8,318,188	7,540,108	-721,190	56,890	0.68%
Nov-20	9,523,187	9,820,749	569,099	271,536	2.85%
Dec-20	10,710,917	10,352,932	124,769	482,754	4.51%
Jan-21	9,988,415	9,942,112	462,311	508,614	5.09%
Feb-21	7,540,819	8,367,578	1,150,503	323,745	4.29%
Mar-21	9,138,854	8,101,465	-675,278	362,111	3.96%
Apr-21	6,996,368	7,004,213	-326,875	-334,720	-4.78%
May-21	7,535,691	7,318,204	341,542	559,029	7.42%
Jun-21	7,380,343	8,145,077	846,884	82,150	1.11%
Jul-21	8,485,147	7,503,050	-1,029,725	-47,628	-0.56%
Aug-21	7,262,875	6,924,806	-406,757	-68,688	-0.95%
Sep-21	6,967,082	7,763,558	874,639	78,163	1.12%
Oct-21	8,547,130	7,812,673	-558,939	175,518	2.05%
Nov-21	8,841,932	8,609,829	50,588	282,692	3.20%
Dec-21	11,123,855	9,870,412	-1,046,655	206,789	1.86%
Jan-22	9,742,724	10,104,547	994,614	632,791	6.50%
Feb-22	9,522,151	8,615,565	-755,618	150,968	1.59%
Mar-22	9,513,677	10,780,563	940,437	-326,448	-3.43%
Totals	290,175,445	285,851,943	2,128,192	6,451,694	2.223%

IV. SDG&E Calculations of Company Use and Un-Accounted-For Load

SDG&E prepares forecasts of gas demand—gas received through customers' meters. Consequently, to calculate the projected quantities of Co-Use-Fuel and UAF, the basis (denominator) for the percentages developed above needs to be changed so they represent gas load as a *percentage of gas demand*—not gas receipts (or gas available for disposition).

The equation below states an identity:

$$(1) \quad Q_{\text{out}} = Q_{\text{in}} - (\text{Co-Use-Fuel}) - (\text{UAF}), \text{ where}$$

Q_{out} = Gas Demand through customers' meters,

Q_{in} = Gas Available for Disposition ("receipts"),

Co-Use-Fuel = $F \times Q_{\text{in}}$,

UAF = $U \times Q_{\text{in}}$,

F = Co-Use-Fuel as a proportion (or %) of Q_{in} , and

U = UAF as a proportion (or %) of Q_{in} .

By substituting the relationships for Co-Use-Fuel and UAF into equation (1), the following result yields a relationship between Q_{out} and Q_{in} :

$$(2) \quad Q_{\text{out}} = Q_{\text{in}} (1 - F - U), \text{ and}$$

$$(3) \quad Q_{\text{in}} = Q_{\text{out}} [1 / (1 - F - U)].$$

These equations will be used to change the basis (denominator) of the percentages of Co-Use-Fuel and UAF from a "receipts basis" to a "demand basis."

The total amount of gas load for Co-Use-Fuel or UAF is numerically the same regardless of the basis for the respective percentages:

$$(4) \quad \text{Co-Use-Fuel} = F \times Q_{in} = f \times Q_{out}, \text{ and substituting for } Q_{in} \text{ from (3) yields,}$$

$$(5) \quad F \times Q_{out} [1 / (1 - F - U)] = f \times Q_{out},$$

$$(5') \quad [F / (1 - F - U)] \times Q_{out} = f \times Q_{out}.$$

Consequently, the percentage of gas demand to use to calculate Co-Use-Fuel is:

$$(6) \quad f = [F / (1 - F - U)]; \text{ similarly,}$$

the percentage of gas demand to use to calculate Co-Use-Fuel is:

$$(7) \quad u = [U / (1 - F - U)].$$

Since Co-Use-Fuel is separated into several components (denoted with subscript "c" in the formulas below), the component loads also can be calculated from gas demand using the following formula:

$$(8) \quad f_c = [F_c / (1 - F - U)]; \text{ where } F = \sum_{i=1, \dots, N} (F_i), \text{ or}$$

$$(9) \quad f_c = (F_c / F) \times f.$$

Example: From the Co-Use-Fuel percentages in Table 1 and the UAF percentage, 1.178%, of Table 2, we calculate:

$$f = 0.399\% = [0.388\% / (100\% - 0.388\% - 2.223\%)],$$

$$u = 2.283\% = [2.223\% / (100\% - 0.388\% - 2.223\%)], \text{ and}$$

Therefore, the Co-Use-Fuel percentage of gas demand (denominator) is 0.399%; and UAF percentage of gas demand (denominator) is 2.283%.

Core Storage Asset Allocation

Gas Demand Forecast Measures Used to Allocate Storage Inventory and Withdrawal Capacity Among Core Rate Classes

In general, the allocation of core storage inventory and core withdrawal capacity among each respective Company’s core rate classes is performed based on core gas demand forecast results for the 4-year CAP period 2024-2027.

To allocate core storage inventory and core injection, a gas demand measure we call “Excess Winter Gas Demand” is calculated for each Company’s core rate class.

$$\begin{aligned} (\text{Excess Winter Gas Demand})_t & \\ &= (\text{Cold-Year Gas Demand})_t \\ &\quad - (\text{CAP Period Cold-Year Gas Demand per Month}), \end{aligned}$$

where the subscript “t” is a month specified as *month-year* combination (e.g., Dec-2025) from Jan-2024 through Dec-2027. For example, using the December 2025 specific month and the residential core market segment for each Company the following specific results are obtained:

SoCalGas’ Residential Core:

$$\begin{aligned} (\text{Residential Excess Winter Gas Demand})_{\text{Dec-2025}} & \\ &= (\text{Cold-Year Gas Demand})_{\text{Dec-2025}} \\ &\quad - (\text{CAP Period Cold-Year Gas Demand per Month}) \\ &= (360,674 \text{ MTherms}) - (2,362,310 \text{ MTherms} / 12) \\ &= (360,674 \text{ MTherms}) - (196,859 \text{ MTherms}) \\ &= (163,815 \text{ MTherms})_{\text{Dec-2025}} \end{aligned}$$

SDG&E’s Residential Core:

$$\begin{aligned} (\text{Residential Excess Winter Gas Demand})_{\text{Dec-2025}} & \\ &= (\text{Cold-Year Gas Demand})_{\text{Dec-2025}} \\ &\quad - (\text{CAP Period Cold-Year Gas Demand per Month}) \\ &= (44,126 \text{ MTherms}) - (298,718 \text{ MTherms} / 12) \\ &= (44,126 \text{ MTherms}) - (24,893 \text{ MTherms}) \\ &= (19,233 \text{ MTherms})_{\text{Dec-2025}} \end{aligned}$$

The data in Table 1 and Table 2, below show the Excess Winter Gas Demand calculation results for SoCalGas and for SDG&E, respectively, by each Company’s core market segments. The monthly gas demand forecasts for Cold-Year HDD design conditions are provided in the Consolidated Gas Demand material of these work papers.

Table 1: SoCalGas Excess Winter Gas Demand

	Residential	Nonresidential Core				Total Core
		G-10	G-AC	G-GE	G-NGV	
Excess Winter Demand--EWD (Mth)						
2024 Jan	151,106	27,751	0	0	0	178,857
Feb	105,672	21,363	0	0	0	127,035
Mar	63,994	13,025	0	0	0	77,019
Apr	14,270	4,735	0	0	0	19,005
May	0	0	0	79	0	79
Jun	0	0	0	652	0	652
Jul	0	0	3	1,035	16	1,054
Aug	0	0	6	1,096	782	1,884
Sep	0	0	4	801	595	1,400
Oct	0	0	3	163	697	864
Nov	27,671	7,437	1	0	240	35,350
Dec	170,603	30,258	0	0	398	201,260
2025 Jan	144,730	25,166	0	0	0	169,895
Feb	100,141	18,950	0	0	0	119,091
Mar	59,313	10,846	0	0	0	70,159
Apr	10,609	2,790	0	0	0	13,400
May	0	0	0	79	0	79
Jun	0	0	0	652	0	652
Jul	0	0	3	1,035	329	1,366
Aug	0	0	6	1,096	1,118	2,219
Sep	0	0	4	801	926	1,731
Oct	0	0	3	163	1,037	1,204
Nov	23,721	5,418	1	0	578	29,717
Dec	163,815	27,592	0	0	740	192,147
2026 Jan	138,706	22,888	0	0	0	161,594
Feb	94,917	16,828	0	0	0	111,744
Mar	54,895	8,933	0	0	0	63,829
Apr	7,161	1,089	0	0	0	8,250
May	0	0	0	79	0	79
Jun	0	0	0	652	228	880
Jul	0	0	3	1,035	657	1,695
Aug	0	0	6	1,096	1,471	2,573
Sep	0	0	4	801	1,274	2,079
Oct	0	0	3	163	1,396	1,562
Nov	19,997	3,649	1	0	934	24,581
Dec	157,400	25,240	0	0	1,100	183,740
2027 Jan	132,330	20,731	0	0	0	153,061
Feb	89,385	14,819	0	0	0	104,204
Mar	50,206	7,128	0	0	35	57,368
Apr	3,481	0	0	0	0	3,481
May	0	0	0	79	15	95
Jun	0	0	0	652	580	1,232
Jul	0	0	3	1,035	1,021	2,059
Aug	0	0	6	1,096	1,862	2,964
Sep	0	0	4	801	1,659	2,464
Oct	0	0	3	163	1,793	1,959
Nov	16,032	1,982	1	0	1,328	19,343
Dec	150,617	23,009	0	0	1,499	175,125
CAP Period:						
Total EWD (Mth):	487,693	85,407	17	3,826	6,078	583,020
Total EWD (Bcf):	47.2	8.3	0.0	0.4	0.6	56.5

Table 2: SDG&E Excess Winter Gas Demand

Excess Winter Demand--EWD (Mth)	Residential	Nonresidential Core		Total Core
		GN-3	G-NGV	
2024 Jan	18,479	5,465	99	24,043
Feb	13,038	4,052	14	17,104
Mar	9,377	2,743	0	12,120
Apr	2,486	863	0	3,349
May	0	0	0	0
Jun	0	0	5	5
Jul	0	0	338	338
Aug	0	0	139	139
Sep	0	0	218	218
Oct	0	0	124	124
Nov	2,090	592	135	2,817
Dec	19,880	5,707	91	25,678
2025 Jan	17,857	5,401	52	23,310
Feb	12,494	3,996	0	16,490
Mar	8,895	2,691	0	11,586
Apr	2,114	822	0	2,937
May	0	0	0	0
Jun	0	0	0	0
Jul	0	0	294	294
Aug	0	0	98	98
Sep	0	0	169	169
Oct	0	0	80	80
Nov	1,723	554	91	2,367
Dec	19,233	5,642	48	24,922
2026 Jan	17,329	5,309	52	22,689
Feb	12,032	3,913	0	15,945
Mar	8,488	2,616	0	11,104
Apr	1,804	760	0	2,564
May	0	0	0	0
Jun	0	0	0	0
Jul	0	0	294	294
Aug	0	0	98	98
Sep	0	0	169	169
Oct	0	0	80	80
Nov	1,417	493	91	2,000
Dec	18,683	5,548	48	24,278
2027 Jan	16,782	5,208	52	22,041
Feb	11,554	3,821	0	15,375
Mar	8,066	2,532	0	10,599
Apr	1,481	690	0	2,171
May	0	0	0	0
Jun	0	0	0	0
Jul	0	0	294	294
Aug	0	0	98	98
Sep	0	0	169	169
Oct	0	0	80	80
Nov	1,098	426	91	1,614
Dec	18,113	5,445	48	23,606
TCAP Period:				
Total EWD (Mth):	61,128	18,822	915	80,864
Total EWD (Bcf):	5.9	1.8	0.1	7.9

The tables below show the Excess Winter Gas Demand totals that are used to allocate 74.16 Bcf core storage inventory and 346 MMcfd summer injection capacity. Specifically, the percentages in line “% for total inventory allocation” are used for core storage inventory and summer injection.

SoCalGas	Residential	Nonresidential Core				Total
		G-10	G-AC	G-GE	G-NGV	SCG Core
"Excess Winter Demand"	47.2	8.3	0.002	0.4	0.6	56.5
% for total inventory allocation	73.44%	12.86%	0.00%	0.58%	0.92%	87.79%
% of SoCalGas core	83.65%	14.65%	0.00%	0.66%	1.04%	100.00%
SDG&E						
	Residential	Nonresidential Core		Total		SCG & SDG&E
		GN-3	G-NGV	SDG&E Core		Core Totals
"Excess Winter Demand"	5.9	1.8	0.1	7.9		64.3
% for total inventory allocation	9.23%	2.84%	0.14%	12.21%		100.00%
% of SDG&E core	75.59%	23.28%	1.13%	100.00%		

To allocate core withdrawal capacity, the respective company’s core peak day gas demands over the CAP period are used. The values and proportions of SoCalGas’ and SDG&E’s respective core peak day load totals are shown below: The percentages in line “% for Withdrawal Allocation” are used to allocate 1,174 MMcfd winter withdrawal capacity.

SoCalGas	Residential	Nonresidential Core				Total
		G-10	G-AC	G-GE	G-NGV	SCG Core
Peak Day Demand	22,262.2	5,242.0	0.3	29.0	479.3	28,012.8
% for Withdrawal Allocation	69.284%	16.314%	0.001%	0.090%	1.492%	87.180%
% of SoCalGas core	79.47%	18.71%	0.00%	0.10%	1.71%	100.00%
SDG&E						
	Residential	Nonresidential Core		Total		SCG & SDG&E
		GN-3	G-NGV	SDG&E Core		Core Totals
Peak Day Demand	3,039.7	1,015.3	64.2	4,119.2		32,132.0
% for Withdrawal Allocation	9.460%	3.160%	0.200%	12.82%		100.00%
% of SDG&E core	73.79%	24.65%	1.56%	100.00%		

The resulting allocations of core storage assets to the various core rate classes are shown in the tables below:

SoCalGas Core Storage Allocations by Customer Class

Storage Asset	Residential	G-10	G-AC	G-GE	G-NGV	Total SCG Core
Inventory Allocation (BCF)	54.46	9.54	0.002	0.43	0.68	65.11
Injection (MMcfd)	254.1	44.5	0.009	2.0	3.2	303.8
Withdrawal (MMcfd)	813.4	191.5	0.011	1.1	17.5	1,023.5

SDG&E Core Storage Allocations by Customer Class & Combined SCG & SDG&E

Storage Asset	Residential	GN-3	G-NGV	Total SDG&E Core		Total SCG & SDG&E Core
Inventory Allocation (BCF)	6.84	2.11	0.10	9.05		74.160
Injection (MMcfd)	31.9	9.8	0.5	42.2		346.0
Withdrawal (MMcfd)	111.1	37.1	2.3	150.5		1,174.0

For example, the storage assets allocated to SoCalGas' residential market segment are calculated below:

Inventory:

$$54.46 \text{ Bcf} = 74.16 \text{ Bcf} \times 73.44\%$$

Injection:

$$254.1 \text{ MMcf/d} = 346 \text{ MMcf/d} \times 73.44\%$$

Withdrawal:

$$813.4 \text{ MMcf/d} = 1,214 \text{ MMcf/d} \times 69.284\%$$

**2006 LUAF Study for SoCalGas
And
SDG&E**



**Year 2006 Lost and Unaccounted-For
Gas at Southern California
Gas Company and San Diego Gas & Electric Company**

**2006 Addendum to: “A Study of the 1991 Unaccounted-For Gas Volume at the
Southern California Gas Company”**

**Prepared by: Southern California Gas Company
Gas Engineering-Measurement Regulation & Control**

November 30th, 2007

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EXECUTIVE SUMMARY:

This document provides a summary of component and customer class allocations for Southern California Gas Company (SoCalGas) and San Diego Gas & Electric Company's (SDG&E) lost and unaccounted-for (LUAF) gas. The allocations are based on a review of reported year 2006 LUAF gas for the companies on areas of LUAF gas contribution as identified in a comprehensive 1991 LUAF gas study conducted by SoCalGas.

SoCalGas' 2006 LUAF gas was 7,273,043 MMBtu, representing 0.73% of all system gas receipts while SDG&E's 2006 LUAF gas was 1,542,472 MMBtu, representing 1.27% of all system receipts.

Tables 1 and 2 on the following pages show year 2006 line-item core and non-core allocations of LUAF gas by component type for SoCalGas and SDG&E, respectively.

The Tables show the following allocations:

<i>LUAF Gas Allocations:</i>				
<u>Company</u>	<u>Core MMBtu</u>	<u>Non-Core MMBtu</u>	<u>Core</u>	<u>Non-Core</u>
SoCalGas:	5,170,794	2,102,249	71.1%	28.9%
SDG&E:	1,183,217	359,235	76.7%	23.3%

The analytical approach used to derive these allocations follows.

Table 1

SoCalGas 2006 LUAF Gas Component Allocation

Line Item	Department	1991 Subcomponents	1991 LAUF Volumes (MCF)	SoCalGas1991 % of LAUF	2006 LAUF Volumes (MCF)	SoCal Gas 2006 % of LAUF	2006 vs.1991 LAUF Volumes (MCF)	2006 % of LAUF Change	2006 LAUF MMBtus	SoCal % Non-core	SoCal 2006 Non-core LAUF MMBtus	SoCal 2006 Core LAUF MMBtus	SoCal Core %
A	Accounting	Cycle Billing Adjustments	201,666	1.86%	0	0.00%	-201,666	-1.86%	-	-	-	-	-
B	Accounting	Company-Use Gas	61,928	0.57%	35,065	0.50%	-26,863	-0.07%	36,176	62.90%	22,755	13,421	37.10%
C	Accounting	Bypass	3,047	0.03%	0	0.00%	-3,047	-0.03%	-	0.00%	-	-	-
D	Accounting	Slow Meters	246	0.00%	302	0.00%	56	0.00%	312	0.00%	-	312	100.00%
E	Accounting	DR Meters	5,008	0.05%	3,250	0.05%	-1,758	0.00%	3,353	0.00%	-	3,353	100.00%
F	Accounting	No-Close Policy	3,479	0.03%	477,006	6.77%	473,527	6.73%	492,115	0.00%	-	492,115	100.00%
G	Accounting	Other Estimated	2,323	0.02%	0	0.00%	-2,323	-0.02%	-	0.00%	-	-	-
H	Accounting	Other Actual	12,460	0.11%	0	0.00%	-12,460	-0.11%	-	0.00%	-	-	-
I	Measurement Regulation & Control	Fixed-Factor Temperature	-1,331,123	-12.27%	-1,539,192	-21.83%	-208,069	-9.56%	(1,587,947)	0.00%	-	(1,587,947)	100.00%
J	Measurement Regulation & Control	Fixed-Factor Pressure	271,007	2.50%	312,599	4.43%	41,592	1.94%	322,501	0.00%	-	322,501	100.00%
K	Measurement Regulation & Control	Elevation and Barometric Pressure	1,603,207	14.78%	1,205,718	17.10%	-397,489	2.33%	1,243,910	0.00%	-	1,243,910	100.00%
L	Measurement Regulation & Control	Fixed-Factor For Calculation of Z	-425,932	-3.93%	-44,947	-0.64%	380,985	3.29%	(46,371)	0.00%	-	(46,371)	100.00%
M	Measurement Regulation & Control	Positive Displacement Meter Accuracy	2,957,299	27.26%	2,244,479	31.84%	-712,820	4.58%	2,315,574	0.00%	-	2,315,574	100.00%
N	Measurement Regulation & Control	Orifice Meter Accuracy	5,849,534	53.91%	4,137,346	58.69%	-1,712,188	4.77%	4,268,399	69.88%	2,982,757	1,285,642	30.12%
O	Measurement Regulation & Control	Ultrasonic Meter Accuracy	0	0.00%	-205,780	-2.92%	-205,780	-2.92%	(212,298)	207.85%	(441,261)	228,963	-107.85%
P	Measurement Regulation & Control	Turbine Meter Accuracy	-912,157	-8.41%	-797,839	-11.32%	114,318	-2.91%	(823,111)	97.33%	(801,134)	(21,977)	2.67%
Q	Measurement Regulation & Control	Instrument Calibration Bias	-28,031	-0.26%	-261,961	-3.72%	-233,930	-3.46%	(270,259)	99.10%	(267,826)	(2,432)	0.90%
R	Measurement Regulation & Control	Ambient Temperature Effect on Instrumentation*	116,012	1.07%	0	0.00%	-116,012	-1.07%	-	0.00%	-	-	-
S	Measurement Regulation & Control	Chart Integration Bias	-50,999	-0.47%	0	0.00%	50,999	0.47%	-	0.00%	-	-	-
T	Distribution Pipeline	Distribution Leakage	804,662	7.42%	566,861	8.04%	-237,801	0.62%	584,817	23.52%	137,549	447,268	76.48%
U	Transmission Pipeline	Transmission Leakage	67,174	0.62%	29,755	0.42%	-37,419	-0.20%	30,698	62.90%	19,309	11,389	37.10%
V	Accounting	Theft	644,529	5.94%	397,288	5.64%	-247,241	-0.30%	409,872	32.27%	132,266	277,606	67.73%
W	NA	Non-Study Components	994,461	9.17%	489,786	6.95%	-504,673	-2.22%	505,303	62.90%	317,835	187,467	37.10%
Total			10,849,800	100.00%	7,049,738	100.00%	-3,800,062	-0.30%	7,273,043	28.90%	2,102,249	5,170,794	71.10%

1991 Total Gas Delivered:	1,052,063,306
1991 LUAF % of Total Gas Delivered:	1.03%
1991 Total LUAF:	10,849,800

2006 Total Gas Delivered MCF:	963,340,871
2006 LUAF % of Total Gas Delivered:	0.73180%
2006 Total LUAF MCF:	7,049,738

2006 Total MMBtus Delivered:	993,855,331
2006 Total MMBtu LUAF:	7,273,043
2006 System Average BTU Factor:	1.0316757

LUAF Factor Total	LUAF Factor NC	LUAF Factor Core
0.73%	0.21%	0.52%
Allocation	Allocation NC	Allocation Core
100%	28.90%	71.10%

The following is included in Instrument Calibration Bias in the 2007 LUAF Study:
*Ambient Temperature Effect on Instrumentation

Table 2
SDG&E 2006 LUAF Gas Component Allocation

Line Item	Department	1991 Subcomponents	SDG&E 2006 % of LUAF	2006 LAUF Volumes (MCF)	2006 LUAF MMBtus	SD % Non-core	SD 2006 Non-core LUAF MMBtus	SD 2006 Core LUAF MMBtus	SD % core
A	Accounting	Cycle Billing Adjustments	0.00%	0	0	0.00%	-	-	
B	Accounting	Company-Use Gas	0.20%	3,021	3,074	59.45%	1,827	1,246	40.55%
C	Accounting	Bypass	0.00%	0	0	0.00%	-	-	
D	Accounting	Slow Meters	0.00%	38	38	0.00%	-	38	100.00%
E	Accounting	DR Meters	0.03%	403	410	0.00%	-	410	100.00%
F	Accounting	No-Close Policy	3.92%	59,368	60,400	0.00%	-	60,400	100.00%
G	Accounting	Other Estimated	0.00%	0	0	0.00%	-	-	
H	Accounting	Other Actual	0.00%	0	0	0.00%	-	-	
I	Measurement Regulation & Control	Fixed-Factor Temperature	-11.62%	-176,217	-179,281	0.00%	-	(179,281)	100.00%
J	Measurement Regulation & Control	Fixed-Factor Pressure	3.30%	50,035	50,905	0.00%	-	50,905	100.00%
K	Measurement Regulation & Control	Elevation and Barometric Pressure	12.83%	194,497	197,879	0.00%	-	197,879	100.00%
L	Measurement Regulation & Control	Fixed-Factor For Calculation of Z	-1.07%	-16,164	-16,445	0.00%	-	(16,445)	100.00%
M	Measurement Regulation & Control	Positive Displacement Meter Accuracy	35.90%	544,219	553,681	0.07%	376	553,305	99.93%
N	Measurement Regulation & Control	Orifice Meter Accuracy	-1.72%	-26,052	-26,505	57.55%	(15,255)	(11,250)	42.45%
O	Measurement Regulation & Control	Ultrasonic Meter Accuracy	33.58%	509,059	517,910	44.83%	232,171	285,739	55.17%
P	Measurement Regulation & Control	Turbine Meter Accuracy	-4.83%	-73,178	-74,450	96.69%	(71,985)	(2,465)	3.31%
Q	Measurement Regulation & Control	Instrument Calibration Bias	-0.75%	-11,325	-11,522	89.04%	(10,260)	(1,262)	10.96%
R	Measurement Regulation & Control	Ambient Temperature Effect on Instrumentation	0.00%	0	0	0.00%	-	-	
S	Measurement Regulation & Control	Chart Integration Bias	0.00%	0	0	0.00%	-	-	
T	Distribution Pipeline	Distribution Leakage	6.55%	99,378	101,106	23.52%	23,780	77,326	76.48%
U	Transmission Pipeline	Transmission Leakage	0.19%	2,948	2,999	59.45%	1,783	1,216	40.55%
V	Accounting	Theft	3.57%	54,134	55,075	25.72%	14,168	40,908	74.28%
W	Accounting	NA	19.92%	301,947	307,197	59.45%	182,629	124,569	40.55%
	Total		100.00%	1,516,111	1,542,472	23.29%	359,235	1,183,237	76.71%

2006 Total Gas Delivered MCF: 119,689,634

2006 LUAF % of Total Gas Delivered: 1.2667%

2006 Total LUAF MCF: 1,516,111

2006 Total MMBtus Delivered: 121,770,685

2006 Total MMBtu LUAF: 1,542,472

2006 System Average BTU Factor: 1.017

LUAF Factor Total
1.27%
Allocation
100%

LUAF Factor NC	LUAF Factor Core
0.30%	0.97%
Allocation NC	Allocation Core
23.29%	76.71%

ANALYTICAL APPROACH:

SoCalGas' Gas Engineering Department formulated year 2006 LUAF gas components for both SoCalGas and SDG&E by employing the methods and assessment mechanics from SoCalGas' 1991 study entitled: "A Study of the 1991 Unaccounted For Gas Volume At the Southern California Gas Company". This comprehensive 1991 Study, which provided the framework for SoCalGas' LUAF gas component and customer assignment, was conducted over a two-year period. The study incorporated detailed testing, sampling and inspection of many of SoCalGas' metering, billing and accounting systems in 1990 and 1991. Gas Engineering personnel reviewed the base calculations and assumptions contained in the 1991 Report and modified/updated relevant calculations with year 2006 data sets to arrive at 2006 component allocations. The results are summarized in Table 1 for SoCalGas and Table 2 for SDG&E. An overview of the approach used to develop these numbers is discussed in this report under the Results and LUAF Gas Component Assignment Overview section. The specific methods, factors and calculations used to arrive at the figures in these tables are described in greater detail in Appendices A through W. These identifying Appendix letters are mapped to the specific Line Item designations A through W in the left columns of Tables 1 and 2.

Key base-data changes from 1991 to 2006 which influenced results included the new type of meters used to serve large customers and to receive gas supplies into the system, the change in families of small meters used by SoCalGas, the location of customers and growth in the Inland areas of the service territory, and temperature differences between the analysis years.

There is no companion study of SDG&E's LUAF gas which matches the SoCalGas 1991 study in detail and scope. As such, SDG&E's LUAF gas allocations for year 2006 constitute a derivative of SoCalGas' study results, with allowances incorporated when known dissimilar utilities practices, employed technologies, or other differences, warrant acknowledgement.

The 1991 Study identified four major contributors to SoCalGas' LUAF gas. The four major contributors were:

- Accounting
- Measurement
- Leakage
- Theft

Within these four major contributory areas, 23 sub-components were identified. These sub-component LUAF gas contributors have been reviewed for changes from 1991 to 2006 in operational practices, technologies, weather and other considerations. Some sub-component derivations are still relevant today and required no alteration while others have been updated or eliminated completely. In many instances, updated calculations to reflect differences between 1991 and 2006 data were performed to arrive at the 2006 LUAF gas components for each company.

RESULTS AND LUAF GAS COMPONENT ASSIGNMENT OVERVIEW:

Tables 1 and 2 provide a summary of specific LUAF gas components and their apportionment to the core or non-core customer classes. Each line item (A through W) constitutes one of the 23 sub-components calculated in the 1991 report, which has been updated with 2006 data where applicable. A summary of each sub-component and a brief description of the rationale and methodology applied to each 1991 line item to arrive at each 2006 updated LUAF gas result and customer class allocation follows:

Accounting:

A) Cycle Billing Adjustments – This component has been removed from the LUAF gas calculation due to the fact that SoCalGas and SDG&E have controlled/adjusted for this effect by incorporating an unbilled revenue calculation several years ago.

B) Company - Use Gas – This is gas used by the utilities to support operations which are not metered directly or otherwise not included in operational engineering calculations. These are very nominal volumes involving gas used for operating valves, controllers, gas measuring instruments, equipment start-up and small gas purging operations. Appendix B shows the line item contributors to this use category.

SoCalGas percent of LUAF: 0.50%,	MMBtus: 36,176
SDG&E percent of LUAF: 0.20%,	MMBtus: 1,827

Computed SoCalGas customer allocation is 62.9% to non-core and 37.1% to core. SDG&E's allocation is 59.5% to non-core and a 40.5% to core. This gas use is shared by customers based on the ratio of their aggregate class use to total system deliveries.

C) Bypass – This is gas which bypasses meters under normal operations (e.g., testing change-outs and other related operations) where the affected gas volumes necessarily cannot be metered. This gas is no longer unreported and unaccounted-for. Estimates of bypass gas volume are placed on work orders. The totals from these forms are included in Company-Use Fuel ledgers.

D) Slow Meters – The SoCalGas year 2006 volume is based on 180,000+ small meter in-testing results and detailed testing performed on small diaphragm meters as part of the 1991 LUAF study. This sub-component represents gas delivery which did not get billed as a result of: a) meters operating at times in slow flow ranges as a function of their design and/or as observed in empirical testing and b) meters which are removed from service, tested and confirmed as operating slow, but which do not reach the procedural

threshold requiring a billing adjustment. It includes only slow meters removed from service. Known meter families which run slow but which remain in service are covered under Line item “M” – *Positive Displacement Meter Accuracy*. This statistically negligible Slow Meter component has shown virtually insignificant change since the 1991 Study. Slow meter-associated LUAF gas was calculated for SDG&E by applying SoCalGas’ meter testing results to SDG&E’s similar family in-service meter populations.

SoCalGas percent of LUAF: <0.00%,	MMBtus: 312
SDG&E percent of LUAF: <0.00%,	MMBtus: 38

Allocation for this slow meter volume is 100% to the core market for both utilities. Slow meter considerations affecting larger meter technologies serving non-core customers are covered under other specific metering categories in this report.

E) *Did Not Register (DR) Meters* – The SoCalGas 2006 volume is based on actual 2006 customer billing adjustments associated with small meters which failed and required replacement. This sub-component has shown insignificant change at SoCalGas since 1991. DR meter LUAF gas was calculated for SDG&E based on SoCalGas’ proportion of LUAF gas for the same meter categories.

SoCalGas percent of LUAF: 0.05%,	MMBtus: 3,353
SDG&E percent of LUAF: 0.03%,	MMBtus: 410

Assignment is 100% to core customers for this component, as any required DR meter adjustments affecting non-core customers are performed directly for each non-core meter site.

F) *Authorized No-Close Policy* – The 2006 SoCalGas allocation is based on 2006 recorded data from SoCalGas’ billing system and has shown significant change since the 1991 study due to residential customer growth and expansion of the no-close process. The policy was merely a pilot study in 1991. This 2006 component was calculated by

taking the aggregate of initial meter reads when a new customer moves into a location and subtracting the final meter reads associated with the previous customer's usage. The results of these calculations are shown below.

SoCalGas percent of LUAF: 6.77%,	MMBtus: 492,115
SDG&E percent of LUAF: 3.92%,	MMBtus: 60,400

No close policy LUAF gas is assigned fully to core customers, as they are the customer group for which this practice is authorized.

G) Other Estimated – This is no longer a calculated LUAF gas sub-component. The 2006 allocation is zero for both companies.

H) Other Actual – This is no longer a LUAF gas sub-component due to changes in measuring, estimating and accounting practices. The 2006 allocation is zero for both companies.

Measurement:

I) Fixed-Factor Temperature – This component represents the over-registration of small gas meters without gas temperature correction. In 2006, the net effect was to lower overall LUAF gas. Customer growth in the Inland area and warmer temperatures in year 2006 were the major causes which changed this number by 10% from 1991 levels for SoCalGas. SDG&E's component was apportioned based on relative numbers of meters which are subject to this phenomenon in comparable temperature zones.

SoCalGas percent of LUAF: -21.83%,	MMBtus: -1,587,947
SDG&E percent of LUAF: -11.62%,	MMBtus: -179,281

This entire component is assigned to core customers. Non-Core customers' meters ordinarily have compensation for both flowing gas pressure and temperature.

J) Fixed-Factor Pressure – This component represents under-billing which occurs due to gas regulation pressure upstream of meters being higher than the as-billed pressure. Based on the results of regulator inspections in 2006, the average fixed factor pressure customer still experiences this slight under-registration.

SoCalGas percent of LUAF:	4.43%,	MMBtus:	322,501
SDG&E percent of LUAF:	3.30%,	MMBtus:	50,905

This component is assigned 100% to core customers as non-core customers have electronic devices which measure and compensate for meter pressure (see Line Item “Q” - *Instrument Calibration Bias* discussion below.)

K) Elevation and Barometric Pressure – Elevation-based LUAF gas results from the elevation where customers actually are served, in the aggregate, being slightly different than the mean altitude assumed in their billing “altitude zone”- used for billing standard pressure customers or "elevation zone"- used for above standard pressure customers. When the aggregate of customers within a zone are situated at an altitude below the mean elevation of that zone used for barometric pressure billing correction, customers on average are under-billed. When they reside above the elevation zone median, their delivered gas pressure is slightly less than assumed, and thus a slight over-registration occurs.

An analysis of each of SoCalGas elevation and altitude zone was performed in 1991. The results showed that customers were on-average situated slightly below their zone mean resulting in higher delivery pressure (and barometric pressure) than employed in billing calculations. SoCalGas 2006 data for this component was calculated by applying updated meter and load information for each of eight standard pressure Altitude Zones (1000' increments) where statistical determination of customer elevation was performed in 1991. This result was applied to standard pressure customer volumes to compute a 2006 result. A similar analysis was performed for above standard pressure customers by

updating information for each of 16 "elevation zones" (400' increments). The contributions to LUAF gas for this phenomenon in 2006 were as follows:

SoCalGas percent of LUAF:	17.10%,	MMBtus:	1,243,910
SDG&E percent of LUAF:	12.83%,	MMBtus:	197,879

SDG&E LUAF contribution was computed by applying SoCalGas altitude zone elevation biases for comparable SDG&E geographic areas. This gas LUAF component is assigned 100% to the core market, as non-core accounts are assigned a barometric read which is site specific, or the pressure at the metering site is an absolute reading from an electronic transmitter registering in units of absolute pressure.

L) Fixed-Factor For Calculation of Z – Bias associated with the fixed factor calculation of super-compressibility changed from 1991, as the temperature associated with the delivery of gas to this class of customers was slightly different. This calculated bias occurs because the assumed system temperature used for the small customer super-compressibility calculation is 60 degrees Fahrenheit while the actual average gas temperature is approximately 64 degrees Fahrenheit for affected meter sets. This resulted in some minor over-registration of gas flows. SDG&E's LUAF gas was calculated using the same method, using a gas temperature of 62.7 degrees F and applying the results to fixed temperature SDG&E customer volumes. The resulting LUAF gas reductions are as follows:

SoCalGas percent of LUAF:	-0.64%,	MMBtus:	-46,371
SDG&E percent of LUAF:	-1.07%,	MMBtus:	-16,445

This component is allocated 100% to core customers, as non-core customer's super-compressibility and volumes are computed using the measured flowing gas temperature at the meter site.

M) Positive Displacement Meter Accuracy – This LUAF gas component reflects the impact of small meter families which have been shown to run slow, but which remain in service as they are not outside of SoCalGas and SDG&E’s, CPUC-approved, Meter Performance Control Program criteria for replacement. The LUAF contributions are based on the in-testing of 180,000 meters and applying the results to both SoCalGas and SDG&E in-service meter families in order to statistically compute the system-wide impact of slow meters. Testing of meter performance at different flow rates and matching of registration biases with customer use profiles was also used to determine this LUAF contribution. Since the 1991 study, many slow meter families have been taken out of service resulting in a reduction in LUAF gas for this sub-component.

SoCalGas percent of LUAF: 31.84%,	MMBtus: 2,315,574
SDG&E percent of LUAF: 35.90%,	MMBtus: 553,681

This component is assigned 100% to core customers, since those customers are affected exclusively by the Meter Performance Control Program.

N) Orifice Meter Accuracy – There has been a migration of some SoCalGas retail and receipt-point orifice meters to ultrasonic meters since 1991. This includes the meters at the primary interconnection between SoCalGas and SDG&E at Rainbow. The net effect is a reduction in SoCalGas LUAF gas as a result of fewer “slow” orifice meters at retail delivery locations. SDG&E has a lesser percentage of retail deliveries through orifice meters compared to SoCalGas. SDG&E’s largest orifice meter impact is from its gas receipt point at San Onofre. Slight under-measurement of this meter results in a favorable LUAF gas component for SDG&E.

SoCalGas percent of LUAF: 58.69%,	MMBtus: 4,268,399
SDG&E percent of LUAF: -1.72%,	MMBtus: -26,505

This component is assigned to both core and non-core customers based on volume weighted orifice-meter supplies and retail delivery meters considerations. All customer

class' supplies are received by orifice meters, but only non-core customers are served by this metering technology.

O) Ultrasonic Meter Accuracy – SoCalGas' finding is that ultrasonic meters can exhibit a positive calibration shift over time and also can exhibit a bias from calibration factor parameters when operating with a single meter factor (and operating at lower than average flow rates.) Maintenance work and repair can also have an upward bias of such metering when probes are replaced in the field due to failure. SoCalGas has used its field findings to project minor upward bias on some of its ultrasonic meters. The associated 2006 LUAF gas impact are:

SoCalGas percent of LUAF:	-2.92%,	MMBtus:	-212,298
SDG&E percent of LUAF:	33.58%,	MMBtus:	517,910

The allocation of this component to customers is a volume-weighted calculation which takes into consideration that both core and non-core customers receive their gas into SoCalGas and SDG&E's transmission lines via ultrasonic meters, while all direct retail deliveries to customers via such meters are for non-core service only. The SoCalGas LUAF gas allocation is a 441,261 MMBtu credit to the non-core market and a 228,963 MMBtu LUAF gas contribution to the core market. The SDG&E LUAF gas allocations are 232,171 MMBtu to the non-core market and a 285,739 MMBtu to core customers.

P) Turbine Meter Accuracy – This component is based on the results of lab calibration tests for meters removed from service and includes field calibration (Aux) factor consideration, which places the lab calibration bias number in the field devices to provide true zero meter error upon installation. Overall these results show a slight over-registration effect for turbine meters in 2006. SDG&E's turbine meter-associated LUAF gas was based on similar results and also compensated for the fact that SDG&E does not include a meter aux factor in its field configuration.

SoCalGas percent of LUAF: -11.32%,	MMBtus: -823,111
SDG&E percent of LUAF: -4.83%,	MMBtus: -74,450

This component is assigned 97% to non-core customers for both utilities, based on the volume weighting of customers served by turbine meters.

Q) Instrument Calibration Bias – This component is calculated from actual field audits performed in 2006 (using “as-found” data from electronic instruments providing pressure and temperature correction for large customers) and now includes the sub-component *Ambient Temperature Effect on Instrumentation*.

SoCalGas percent of LUAF: -3.72%,	MMBtus: -261,961
SDG&E percent of LUAF: -0.75%,	MMBtus: -11,522

This component is assigned 99% to SoCalGas' non-core customers, based on the error type associated with the specific equipment in-service at the different customer classes and volume weighting the allocated bias effect. The allocation to SDG&E's non-core customers is 89% based on symmetric criteria.

R) Ambient Temperature Effect on Instrumentation – Ambient temperature effect is now included in the above referenced subcomponent “*Instrument Calibration Bias*”.

S) Chart Integration Bias – Charts are an outdated technology and are no longer used for custody transfer billing. The 2006 LUAF gas component contribution is zero for both utilities.

Leakage:

T) Distribution Leakage – Year 2006 leakage data for mains and services was derived from 2006 mileage, pipe type and updated leak per mile factors for the associated pipe. SDG&E’s pipeline leakage rate were computed in the same manner as SoCalGas’, with SDG&E’s miles of pipe used instead of SoCalGas. Details are provided in Appendix T/U.

SoCalGas percent of LUAF: 8.04%,	MMBtus: 584,817
SDG&E percent of LUAF: 6.55%,	MMBtus: 101,106

The allocation to customer class for both companies was computed based on the relative volume of gas used by core and non-core customers served off of the distribution system. The allocation for distribution leakage is 76% core and 24% non-core for both utilities.

U) Transmission Leakage – SoCalGas 2006 LUAF gas attributable to this component was derived by adjusting transmission pipeline mileages between 1991 and 2006 and applying the 1991 per mile leak rate. Leakage for compressor stations was computed by using 1991 Mcf/hour leak factors for each compressor station with actual 2006 operational hours used as the multiplier. SDG&E’s 2006 LUAF gas for this component was computed using SDG&E’s pipeline mileage and comparable-type SoCalGas leak factors for pipeline contribution. Comparable SoCalGas compressor leakage rates and SDG&E’s actual operating hours were used to compute SDG&E’s compressor station contributions.

SoCalGas percent of LUAF: 0.42%,	MMBtus: 30,698
SDG&E percent of LUAF: 0.19%,	MMBtus: 2,999

Transmission pipelines and compressors serve all customers; as such gas LUAF gas component allocations are based on customer class percentage of total gas deliveries. The results are: SDG&E: non-core 59% and core 41%; SoCalGas: non-core 63% and core 37%.

Theft:

V) **Theft** – Two calculation methods were used in the 1991 study and the method with the larger amount of LUAF gas was chosen for the analysis in that era. After updating these calculations for customer growth and other factors in 2006, an average of the two calculation methods (entailing percentage of customers who steal gas and the average amount per episode) was used for this revision, resulting in a slight decrease in the percentage of this sub-component. Theft component LUAF contribution was calculated for SDG&E by applying SoCalGas’ customer behavior findings/results to SDG&E customer meter counts.

SoCalGas percent of LUAF: 5.64%,	MMBtus: 409,872
SDG&E percent of LUAF: 3.57%,	MMBtus: 55,075

Theft-related LUAF gas allocation was allocated to core and non-core customers based on residential/non-residential end use designation use in the theft calculations. Residential theft was assigned to core while non-residential theft was assigned to non-core for both Companies. The results are: SoCalGas: non-core 32%, core 68%; and SDG&E: non-core 26%, core 74%.

Non-Study Components:

W) **Non-Study Components** – This category represents the remainder of LUAF gas for each utility which has not been specifically assigned to a known LUAF gas contribution area. It represents those contributions which might be assignable in any of the other areas, but for which more study would be required to provide such definitive allocations. These numbers also represent the practical limits of certainty for each of the utilities’ LUAF gas analyses.

SoCalGas percent of LUAF: 6.95%,	MMBtus: 505,303
SDG&E percent of LUAF: 19.92%,	MMBtus: 307,197

Non-study components were assigned to customer class based on aggregate customer class energy use in 2006.

CONCLUSIONS:

SoCalGas' 2006 LUAF gas was 7,273,043 MMBtu, representing 0.73% of all system deliveries; while SDG&E's 2006 LUAF gas was 1,542,472 MMBtu, constituting 1.27% of all system deliveries. Assignment of these LUAF gas figures to customer class, based on the volume-weighted results of all sub-component allocations, is as follows:

<u>Description</u>	<u>SoCalGas</u>	<u>SDG&E:</u>
2006 LUAF MMBtu	7,273,043	1,542,472
Core Allocation MMBtu	5,170,794	1,183,237
Non-Core Allocation MMBtu	2,102,249	359,235
Core Allocation%	71.1%	76.7%
Non-Core Allocation%	28.9%	23.3%

APPENDIX A

Cycle Billing Adjustments

Cycle billing adjustment was historically used to refine the formal annual LUAF number for end of year and beginning of year meter reads. This component has been removed from the LUAF gas calculation due to the fact that SoCalGas and SDG&E controlled/adjusted for this effect by incorporating an unbilled revenue calculation into the reported LUAF numbers several years ago. It is integral to the reported number.

APPENDIX B

Company Use Gas

Company use gas LUAF contribution is associated with gas which is used in operations but not sufficiently large enough to report on special accounting forms. Volume II (Accounting-P.43) of the 1991 LUAF study discusses the SoCalGas Company Use gas LUAF contribution of 61,928 Mcf in that year and the method employed to arrive at this figure. The base methodology for calculating Company Use gas LUAF in 2006 remained unchanged for 2006, although several technology changes from 1991 to 2006 did impact this figure favorably. High-bleed gas quality measurement devices have been replaced by gas chromatographs. Turbine start figures have been reduced substantially as gas used for such purposes is now measured for most of the two companies' gas turbine-driven compressors. Tables B-1 and B-2 show the data sets and calculation results for this gas LUAF component in 2006 for SoCalGas (35,065 Mcf : 36,176 MMBtu) and SDGE (3,021 Mcf : 3,074 MMBtu), respectively.

Table B-1

SoCalGas

Item	Unit#	cf/day	Mcf/yr	MMbtu	Notes
pneumatic controls-trans			22,129	22,830	91 study numbers unaltered
pneumatic controls-dist			5,909	6,096	91 study numbers unaltered
gas sampling-GCs	113	4	168	174	updated GC sampler number, 0.17 cf/hr/gc
gas sampling YZ samp	104	0	5	5	updated YZ number, 91 per sampler rate
facility blow and gas purge			3,314	3,418	30% of 91 numbers due to form capture of significant blows
drip operations			1,240	1,279	91 unaltered
wet gas effect			2,300	2,373	91 unaltered
turbine starts			-	-	all metered except Kelso unaltered
Totals			35,065	36,176	

SoCalGas Allocation to non-core	37.10%	13,009.1	13,421.2
SoCalGas Allocation to core	62.90%	22,055.9	22,754.6

Table B-2

SDGE

Item	Unit#	cf/day	Mcf/yr	MMbtu	Notes
pneumatic controls-trans			1,353	1,376	91 scg*sdge trans mi/Socalgas trans mi
pneumatic controls-dist			1,036	1,054	91 study numbers*sdge dist mi/socalgas dist mi
gas sampling-GCs	2	4	3	3	updated CG sampler number, 0.17cf/hr/gc
gas sampling YZ samp	4	0	0	0	updated YZ number, 91 per sampler rate
facility blow and gas purge			412	420	2006 SCG Number*sendout ratio SDGE/SCG
drip operations			76	77	91 SCG total * ratio transmission line mileage
wet gas effect			141	143	91 SCG total * ratio transmission line mileage
turbine starts			-	-	Moreno turbines start fuel metered
Totals			3,021	3,073	

SDGE Allocation to Core	40.55%	1,224.9	1,264.1
SDGE Allocation to non-Core	59.45%	1,795.8	1,853.3

Allocation to customer class for each company is based on 2006 relative delivered energy to core and non-core customers.

APPENDIX C
Bypass Gas LUAF

Bypass gas contribution to gas LUAF, as reported in 1991, is now fully reported and accounted for in Company Use gas for 2006. As a result, it is no longer a LUAF component for SoCalGas. It is similarly not a LUAF component for SDG&E in 2006.

APPENDIX D

Slow Meter Gas LUAF

Slow Meter gas LUAF contribution is associated with gas meters which have been in-
tested (after removal from a customers premise, approximately 180,000 per year) and
found to be operating slow, but which are below the threshold for SoCalGas/SDGE to
provide the customers billing adjustments.

Volume II (Accounting-P.69) of the 1991 LUAF study discusses the Slow Meter gas
LUAF contribution of 246 Mcf in that year. Accounting processes for calculating Bypass
gas LUAF in 2006 remained unchanged. The value is simply the summation of all
identified slow meters which were not re-billed as-compiled in CIS report E12P02-3
LUAF. The 2006 value, shown below in Table D-1 is 302.3 Mcf. SDG&E slow meter
data was calculated using SoCalGas LUAF and multiplying by the ratio of contributing
meter types/sizes between the two companies. The SDGE contribution is 38 Mcf.

Table D-1

<p>Slow Meter Allowance 302.3 MCF/Year for 2006</p> <p>Source System Report: E12P02-3 Allowances Report</p> <p>Definition Slow meter volumes not billed</p> <p>Explanation</p> <p>This report identified slow meter volumes marked as too small to rebill.</p> <p>A residential meter that is less than 25% slow or when the calculated unregistered volume is 25 ccf or less is not rebilled</p> <p>A non-residential meter that is less than 2% slow or when the calculated unregistered volume is 25 ccf or less is not rebilled</p>

As-found slow meters which do not trigger billing adjustments are generally limited to small volume use meters and customers. Therefore this component is assigned 100% to core customers for both Companies.

APPENDIX E

DR Meter Gas LUAF

DR Meter gas LUAF contribution is associated with gas meters serving customers which do not register and are removed, but for which estimated volumes are not fully billed to customers due to billing procedural requirements - estimated quantity less than 25 ccf.

The 1991 LUAF study discusses the DR gas LUAF contribution of 5,008 Mcf in that year. Accounting processes for calculating DR Meter gas LUAF in 2006 remained unchanged at SoCalGas. The DR Meter 2006 gas LUAF component is the summation of all DR gas estimates as-compiled in CIS report E12P02-3 LUAF. Table E-1 below, and excerpt from this report, shows this value to be 3,250 Mcf (3,353 MMBtu).

E-1

Unbilled DR Meter Volumes	
3250 MCF/Year for 2006	
Source	System Report: E12P02-3 Allowances Report DW Query of Meter Changes for reason DR
Definition	Volumes not billed for meters that stopped registering usage
Explanation	When the calculated unregistered volume is 25 ccf or less, it is not rebilled
Calculation	
Total No. of DR Txns Billed	11739 CIS report e12P02-3
Average Billed Txn/Meter	2.75 Estimated
No. of Meters Billed	4269 (1) ÷ (2)
Total No of DR meters	6869 Per DW Query
No of DR Meters Not Billed	2600 (4) - (5)
Usage per meter not billed	12.5 Midpoint between 0-25 based on 25 ccf threshold for rebilling
Total Usage not billed	32500 (5) - (6)
Usage in MCF	3250 (7) ÷ 10

SDG&E DR meter data was calculated using SoCalGas LUAF and multiplying by the ratio of contributing meter types/sizes between the two companies. The 2006 SDGE gas LUAF contribution associated with DR meters was 403 Mcf (410 MMBtu).

DR Meter gas LUAF is allocated 100% to core customers, as non-core customers DR meters are identified and fully reconciled for billing purposes.

APPENDIX F

No-Close Policy gas LUAF

No Close gas LUAF contribution is associated with authorized procedures which allow both companies to leave gas service active when customers vacate a premise. The gas use (typically pilot lights) at a facility between the time a customer moves out and the subsequent occupant orders gas service is not billed to any customer. The result is a significant LUAF contribution attributable to this phenomenon. The total contribution for this Policy is calculated in SoCalGas' CIS report E12P02-5 LUAF to be 477,006 MCF (492,115 MMBtu). This policy was a partial year pilot program in 1991 and the LUAF contribution much lower in that year (3,479 Mcf).

Table F-1
Summary of CIS billing system No Close Meter Registration differentials.

<p>LUAF Due to No Close Policy 477,005.7 MCF/Year for 2006</p>
<p>Source System Report: E12P02-5 LUAF Report</p>
<p>Definition Usage recorded by the meter at a vacant facility.</p>
<p>Explanation of Report Categories</p> <p style="padding-left: 40px;">Usage between the off date and hard meter close date is recorded as "Soft Close" LUAF</p> <p style="padding-left: 40px;">Usage resulting from a leak at the meter on a vacant facility is recorded as "Leakage on an Off Meter".</p> <p style="padding-left: 40px;">Usage between the off date for one customer and On date for another customer is recorded as "LUAF"</p> <p style="padding-left: 40px;">Usage between hard meter close date and new customer on date is recorded as "Unauthorized Usage no customer to bill"</p>

SDG&E No Close Policy LUAF contribution data was calculated using SoCalGas LUAF volumes and multiplying by the ratio of contributing meter types/sizes between the two companies. The Soft close policy impacts are symmetric for the two companies. The SDGE contribution is 59,368 Mcf. Soft Close is allocated 100% to core customers as they are the class of customer for which this policy is authorized.

APPENDIX G

Other Estimated

This Component is no longer considered LUAF in 2006. Corrections made to customer bills are fully reconciled as company credit/debit on gas ledgers, regardless of time skew.

APPENDIX H
Other Actual Gas Usage

This Component is no longer characterized as gas LUAF; it is accounted for or otherwise estimated and represented as Company Use on gas ledgers.

APPENDIX I

Fixed-Factor Temperature Gas LUAF

Fixed Factor Temperature gas LUAF results when actual gas temperature at a customer meter is something other than 60 degrees F, the value upon which customers without temperature compensating meters are billed. In 2006 the average gas temperature at small customer meters was calculated on the SoCalGas to be 62.08 degrees, resulting in slight over-billing of small meter customers in the aggregate. The average at larger meters was 63.72. For SDG&E the temperatures for small meters averaged 61.5 degrees F, while larger fixed factor temperature meters averaged 62.79. Larger fixed factor meters, serving processes and production activity as opposed to domestic use, have less variation in delivered volumes between summer and winter than smaller meters. Their relative use does not drop off as much in summer, resulting in higher volume-weighted average gas temperatures.

Discussion:

The 2006 Fixed Factor Temperature LUAF contribution for SoCalGas employed the method presented in the following 1991 LUAF Measurement report Tables.

Fixed-Factor Temperature UAF at Small Meters	Table 3.1.1-2
Fixed-Factor Temperature UAF at Large Meters	Table 3.1.1-3

This method was updated with 2006 customer volume and zone gas temperature data. In the elements of Fixed-Factor Temperature at Small and Large Meters and Fixed-factor Pressure at Standard Delivery Pressure, it was determined that the methodology of 1991 was correct, but the conditions in 2006 had changed and warranted a verification that the Temperature and pressure findings were still applicable.

In regards to Fixed-factor temperature at Small and Large meters, there are now 3 Billing Zones instead of 6 Weather Zones as in 1991. The 2006 monthly volume for small and large meters for each Billing Zone and the average monthly ambient temperature for each Billing Zone were required to calculate the 2006 UAF for this element. The increase in 2006 vs. 1991 UAF (gain due to over-registration) for Fixed Factor temperature was due to an increase in the average gas temperature. The gas temperature increased from 60.6 in 1991 to 62.8 degrees F for small meters in 2006. Table I-1 below shows the 2006 volume weighted temperature calculation for each billing zone.

**Table I-1:
Fixed Factor Temperature Zone data (small meters core size 1-3)**

Months 2006 Size 1-3 Meters	Zone 1 Monthly Temp Basin	Zone 2 Monthly Temp Foothill/Central	Zone 3 Monthly Temp Mountain	Zone 1 Monthly Volume (MCF)	Zone 2 Monthly Volume (MCF)	Zone 3 Monthly Volume (MCF)
January	57.13	50.85	37.88	28,607,140	3,113,444	235,179
February	58.98	53.05	39.44	24,775,664	2,638,099	209,398
March	54.48	51.07	35.13	28,292,914	2,805,513	238,889
April	60.21	58.28	44.51	19,738,166	1,819,751	201,971
May	67.25	68.47	53.35	14,194,073	1,103,071	84,143
June	74.51	75.84	63.79	11,894,148	880,932	50,682
July	80.47	81.7	69.45	10,135,585	799,517	40,851
August	75.47	75.83	65.23	10,017,561	790,645	38,691
September	73.79	72.21	60.22	10,906,293	888,200	49,165
October	67.07	62.88	50.04	12,337,124	1,078,415	87,069
November	64.39	57.35	46.42	16,632,589	1,778,166	131,505
December	56.85	49.18	37.35	28,133,204	3,250,625	233,971
Total Mcf each Zone				215,664,461	20,946,378	1,601,514
Volume weighted average zone temp (degrees F)	62.78	57.71	43.58			
Total Volumes (Mcf) of all Zones:						238,212,353
# of Meters per Zone weighted gas temperature	62.08			4,932,677	450,557	25,411

Table I-2 shows the resulting 2006 reduction to LUAF based on this zone deviation in gas temperature from 60 degrees F. This value is -951,824 Mcf (LUAF reduction).

Table I-2
Size 1-3 Meters

Months 2006	Zone 1 Monthly UAF %	Zone 2 Monthly UAF %	Zone 3 Monthly UAF %	Zone 1 Monthly UAF Volume (MCF)	Zone 2 Monthly UAF Volume (MCF)	Zone 3 Monthly UAF Volume (MCF)
January	0.555%	1.792%	4.446%	158867	55802	10456
February	0.197%	1.356%	4.119%	48725	35760	8626
March	1.074%	1.748%	5.026%	303757	49053	12007
April	-0.040%	0.332%	3.072%	-7973	6043	6205
May	-1.376%	-1.604%	1.296%	-195299	-17690	1091
June	-2.716%	-2.958%	-0.724%	-323082	-26057	-367
July	-3.790%	-4.008%	-1.786%	-384114	-32047	-730
August	-2.891%	-2.956%	-0.996%	-289591	-23372	-386
September	-2.585%	-2.296%	-0.042%	-281929	-20390	-21
October	-1.342%	-0.551%	1.954%	-165591	-5944	1701
November	-0.838%	0.513%	2.683%	-139330	9114	3529
December	0.610%	2.126%	4.557%	171570	69120	10662
Summary	-0.512%	0.475%	3.295%	-1,103,989	99,391	52,774
Weighted LUAF contribution for all zones-small meters			0.40	TOTAL Small Meter LUAF Zones 1-3 (Mcf		-951,824

Table I-3 shows temperature data for large core meter (size 4 meters and larger). These meters have a different geographic distribution and customer use profile which results in a 2006 average gas temperature of 63.72 degrees F.

**Table I-3:
Fixed Factor Temperature gas LUAF (Large meters size core 4+)**

2006 UAF Summary Fixed-Factor Temperature UAF at Large Meters

Months 2006 Size 4&up Meters	Zone 1 Monthly Temp Basin	Zone 2 Monthly Temp Foothill/Ce ntral	Zone 3 Monthly Temp Mountain	Zone 1 Monthly Volume (MCF)	Zone 2 Monthly Volume (MCF)	Zone 3 Monthly Volume (MCF)
January	57.13	50.85	37.88	8,217,370	760,380	18,108
February	58.98	53.05	39.44	7,522,001	685,267	17,453
March	54.48	51.07	35.13	8,103,237	698,356	19,082
April	60.21	58.28	44.51	6,788,903	518,655	15,975
May	67.25	68.47	53.35	5,828,766	408,145	9,444
June	74.51	75.84	63.79	5,147,656	400,502	7,106
July	80.47	81.7	69.45	4,636,873	402,008	6,415
August	75.47	75.83	65.23	4,626,831	399,785	6,484
September	73.79	72.21	60.22	4,961,077	416,496	7,476
October	67.07	62.88	50.04	5,437,476	445,523	9,201
November	64.39	57.35	46.42	6,338,021	552,429	11,847
December	56.85	49.18	37.35	8,066,697	800,781	18,701
Large Meter Zone totals (Mcf)				75,674,908	6,488,327	147,292
Volume weighted average Zone temp (degrees F)	62.78	57.71	43.58			

The associated gas LUAF gain for large meters, as shown in calculation summary Table I-4, is -587,368 Mcf.

Table I-4						
Months 2006 Size 4&up Meters	Zone 1 Monthly UAF %	Zone 2 Monthly UAF %	Zone 3 Monthly UAF %	Zone 1 Monthly UAF Volume (MCF)	Zone 2 Monthly UAF Volume (MCF)	Zone 3 Monthly UAF Volume (MCF)
January	0.555%	1.792%	4.446%	45634	13628	805
February	0.197%	1.356%	4.119%	14793	9289	719
March	1.074%	1.748%	5.026%	86998	12210	959
April	-0.040%	0.332%	3.072%	-2742	1722	491
May	-1.376%	-1.604%	1.296%	-80199	-6546	122
June	-2.716%	-2.958%	-0.724%	-139826	-11847	-51
July	-3.790%	-4.008%	-1.786%	-175726	-16114	-115
August	-2.891%	-2.956%	-0.996%	-133754	-11818	-65
September	-2.585%	-2.296%	-0.042%	-128244	-9561	-3
October	-1.342%	-0.551%	1.954%	-72983	-2455	180
November	-0.838%	0.513%	2.683%	-53093	2831	318
December	0.610%	2.126%	4.557%	49195	17028	852
Summary	-0.780%	-0.025%	2.860%	-589,948	-1,632	4,212
	UAF% Zone 1	UAF% Zone 2	UAF% Zone 3	Zone 1 UAF	Zone 2 UAF	Zone 3 UAF
2006 UAF Fixed T Large		-587,368	1991 UAF Fixed T Large			-1,470,933
2006 Vol by Zone MCF		82,310,527	1991 Vol by Zone MCF			83,268,184
2006 UAF % by Zone		-0.71%	1991 UAF % by Zone			-1.77%
2006 Avg. T Large		63.72 F	1991 Avg. T Large			69.2 F

Total 2006 SoCalGas Fixed Factor Temperature gas LUAF reduction for both small and large core meters combined was 1,539,192 Mcf.

SDG&E:

SDG&E gas LUAF contribution associated with Fixed Factor Temperature phenomena was calculated by applying SoCalGas Temperature zone data to SDG&E deliveries by-month to SDGE zone volumes. The computed average temperature for SDGE small meters was 61.5 degrees F, while the computed average for large meters was 62.79 degrees F. Table I-5 shows the results of the volume and zone temperature weighted calculations.

Table I-5
SDG&E 2006 LUAF Fixed Factor Temperature
Analysis – Average Gas Temperature Results.

Year 2006 SDG&E Avg T (degrees F)	64.54
Est. SDGE 2006 T vol wt Small Meters (deg F)	61.5
Est. SDGE % UAF Small Meter (1.5/520)	-0.29%
Est. SDGE 2006 T vol wt Large	62.79
Est. SDGE % UAF Large Meter (2.79/520)	-0.53%

Table I-6 below shows the calculated gas LUAF associated with fixed factor temperature billing phenomena for both small and larger meters. The associated volume weighted gas LUAF reduction is shown to be -83,731 for small meters and -92,486 for large core meters for a total LUAF reduction of 176,217 Mcf.

Table I-6

Fixed T Small Meters	2006 Volume MCF	Fixed T Small UAF% SDGE 2006	SDG&E 2006 UAF Volume Mcf
Small Diaphragm	28,709,290	-0.29%	-83,257
Small Diaphragm TG (Use SCG Small Meter UAF% Zone 2)	163,518	-0.29%	-474
Total Fixed T Small	28,872,808	-0.29%	-83,731
Fixed T Large Meters			
Large Diaphragm	3,441,982	-0.53%	-18,243
Rotary w/o TC	6,769,135	-0.53%	-35,876
Large Diaphragm TG	378,924	-0.53%	-2,008
Rotary TG w/o TC	5,789,354	-0.53%	-30,684
Turbine TG - no TC (Use SCG Large Meter UAF% Zone 2)	1,070,770	-0.53%	-5,675
Total Fixed T Large	17,450,165	-0.53%	-92,486
SDG&E UAF Fixed T 2006	46,322,973	-0.38%	-176,217

The allocation of Fixed Factor Temperature gas LUAF reduction is 100% to core customers for both SoCalGas and SDG&E, as non-core customers are equipped with temperature compensating metering devices.

APPENDIX J

Fixed Factor Pressure gas LUAF

The method for calculating LUAF contribution for this component was to apply measured 2006 regulator field pressure tests results and observed biases to fix-factor metered volumes for both SDGE and SoCalGas. These volumes were obtained from the CIS and CISCO billing systems. When the actual pressure delivered to a gas meter is higher than that assumed in fixed factor billing calculations, the associated gas meter under-registers by a small amount. In 2006, the net effect was to under-register by approximately 0.1%. This was due to average regulator standard pressure accounts being served at 8.51 inches water column while billing pressure was 8.0 inches. The results constitute an update of Table 3.1.2-1 in Volume III (Accounting-P.26) of the 1991 LUAF study. Fixed Factor Pressure gas LUAF contribution in that year was 271,007.

Year 2006 findings for small meter sets were based on 631 sampled regulators from a special field study and normal QC receiving inspection test results. Observed meter pressured biases were applied to associated customer volumes.

Table J-1 below shows the net Fixed Pressure gas LUAF contribution for SoCalGas to be 312,599 Mcf in 2006.

Table J-1

2006 UAF Summary SoCalGas Fixed-Factor Pressure for Standard Pressure and Temporary Gauge Meter Sets

Category	Avg Delivery Pressure (in. w.c.)	2006 Del Vol Sample TG Sets	2006 UAF Vol Sample Sets	Delivery Pressure Correction Factor	2006 System Delivery Volume (MCF)	2006 UAF Volume (MCF)
Small Meters 8" w.c.	*8.51	n/a	n/a	1.0012	237,276,951	290,892
Large Meters 8" w.c.	**8.40	n/a	n/a	1.0010	48,073,468	46,224
Temporary Gauge Sets	n/a	7,583,868	-13,600	0.9982	13,671,928	-24,518
2006 Totals				0.10%	299,022,347	312,599

SDG&E:

SDE&E Fixed Factor Pressure gas LUAF volumes were computed using SoCalGas and SDG&E regulator sampling results and applying them to SDG&E volumes subject to this phenomenon. The result is shown below in Table J-2 to be 50,035 Mcf.

Table J-2
2006 UAF Summary SDG&E Fixed-Factor Pressure for
Standard Pressure and Temporary Gauge Meter Sets

SDG&E Fixed Factor Pressure	
SDG&E Volume Fixed Factor Pressure	50,035,048
Estimated SDG&E UAF% Fixed Factor Pressure	0.10%
SDG&E UAF MCF Fixed Factor Pressure	50,035

The allocation of Fixed Factor Pressure gas LUAF is 100% to core customers for both SoCalGas and SDG&E, as non-core customers are equipped with pressure measuring/compensating metering devices.

APPENDIX K

Elevation and Barometric Pressure gas LUAF

Elevation-based LUAF gas results from the elevation where customers actually are served, in the aggregate, being slightly different than the altitude assumed in their billing “altitude zone”. When the aggregate of customers within a zone (@1000 ft or 400 foot increments) are situated at an altitude below the mean elevation of that zone (used for barometric pressure billing correction) customers on average are under-billed. When they reside above the elevation zone median, their delivered gas pressure is slightly less gas than assumed and thus a slight over-registration occurs. An analysis of each of SoCalGas elevation zone was performed in 1991 and discussed in Volume III (Measurement-P. 32) of the 1991 LUAF study. The associated LUAF results were contained in Tables 3.1.3-3 and 3.1.3-4 of that report. These results showed that customers were, on-average, situated slightly below their elevation zone mean resulting in higher delivery pressure than assumed.

SoCalGas 2006 data for this component was calculated by applying updated meter and load information for each Altitude Zone where statistical determination of customer elevation was performed in 1991. SoCalGas performed this update for both customers served at standard pressure and those served at above standard pressure but without site-specific barometric correction. The results are shown in Tables K-1 and K-2 for standard pressure and above standard pressure customers, respectively. Standard pressure customers are segregated into eight 1000 foot Altitude zone while above standard pressure customers are segregated into 16 zones of 400 foot increments.

Table K-1 shows the computed gas LUAF contribution of standard pressure meters to be 1,251,906 Mcf. There was a decrease in 2006 vs. 1991 UAF for Fixed Factor Elevation and Barometric Pressure due to a decrease in the volume delivered through both Standard Pressure and Above Standard Pressure meters using a fixed barometric pressure. More customers have electronic pressure correctors installed in 2006 than in 1991 and they also have site-specific barometric pressure data programmed into their correction device.

Table K-1
2006 UAF Summary Fixed-Factor Altitude Zone for Standard Pressure Meters

Altitude Zone	Feet Above Sea Level	No. Meters Per Zone	Recorded Volume (MCF) Per Zone	Assumed Altitude Factor For Zone	Apply 1991 Avg % UAF Per Meter In Zone	Total 2006 UAF Volume (MCF) Per Zone
A	Below 1000	4,301,206	184,783,983	1.000	0.52%	960877
B	1000 – 1999	899,042	41,606,532	0.968	0.73%	303728
C	2000 – 2999	164,668	8,334,536	0.935	-0.23%	-19169
D	3000 – 3999	11,402	600,500	0.903	0.17%	1021
E	4000 – 4999	12,453	685,266	0.871	-0.65%	-4454
F	5000 – 5999	12,678	843,134	0.841	0.00%	0
G	6000 – 6999	6,191	386,451	0.812	2.44%	9429
H	7000 – 7999	1,005	36,549	0.782	1.30%	475
	2006 Totals	5,408,645	237,276,951		0.53%	1,251,906
	1991 Totals	4,765,459	320,392,311			1,695,949

Table K-2 shows the 2006 gas LUAF contribution of above standard pressure meters as calculated by integrating the zone bias information from 1991 with 2006 customer data for the same regions. The result is a gas LUAF reduction of 46,188 Mcf for this set of customers. (They reside, in aggregate, above the mean elevation used for billing within their associated zone, resulting in measurement over-registration.)

Table K-2
2006 Fixed-Factor Elevation Zone LUAF for Above Standard Pressure Meters

Elevation Zone	Feet Above Sea Level	Std Barometric Pressure (psia)	No. Meters Per Zone	2006 Recorded Volume Per Zone (MCF)	Apply 1991 Avg % UAF Per Meter In Zone	Estimated 2006 UAF Volume Per Zone (MCF)
1	-200 to 199	14.73	6118	56,017,324	-0.07%	-39,212
2	200 to 599	14.53	4263	35,142,218	0.00%	0
3	600 to 999	14.32	2580	19,647,953	0.01%	1,965
4	1000 to 1399	14.12	1199	16,352,454	-0.02%	-3,270
5	1400 to 1799	13.92	478	3,787,988	0.03%	1,136
6	1800 to 2199	13.72	41	259,599	0.11%	286
7	2200 to 2599	13.53	216	1,218,916	-0.12%	-1,463
8	2600 to 2999	13.33	158	6,529,214	0.08%	5,223
9	3000 to 3399	13.14	22	2,514,964	-0.36%	-9,054
10	3400 to 3799	12.96	5	262,429	-0.14%	-367
11	3800 to 4199	13	20	153,441	-0.06%	-92
12	4200 to 4599	12.59	3	5,678	-0.52%	-30
13	4600 to 4999	12.41	6	7,202	-0.51%	-37
14	5000 to 5399	12.23	14	433,055	-0.29%	-1,256
15	5400 to 5799	12.06	3	3,196	0.12%	4
16	5800 to 6199	11.89	8	14,256	-0.15%	-21
17	6200 to 6599	11.72	0	0	0.00%	0
18	6600 to 6999	11.55	0	0	0.00%	0
19	7000 to 7399	11.39	0	0	0.00%	0
		2006 Totals	15,134	142,349,887	-0.03%	-46,188
		1991 Totals	15,279	413,752,364	-0.02%	-92,742

The total SoCalGas gas LUAF contribution associated with both standard and above standard pressure meters is 1,205,718 Mcf (1,243,910 MMBtu). Customer class allocation is 100% to core customers, as non-core customers have site-specific barometric pressure correction factors or absolute pressure data integrated into their electronic measurement computation processes, and thus have no part in this LUAF component.

SDG&E:

SDG&E LUAF contribution due to Elevation and Barometric Pressure measurement phenomena for both standard and above standard meters is shown in Table K-3 below to be 194,497 Mcf. This figure was calculated by applying SoCalGas' Altitude A and Elevation Zone 1 biases to SDG&E volumes in comparable geographic regions.

Table K-3

SDG&E Fixed Altitude Zone-standard pressure

SDG&E Volume Fixed Altitude Zone (MCF)	39,207,013
Est. SDG&E UAF% Fixed Altitude Zone A (Below 1000 ft)	0.52%
SDG&E UAF MCF Fixed Altitude Zone	203,876

SDGE Fixed Factor Elevation Zone Above Standard Pressure

SDGE Fixed Factor Elevation Zone Volume (MCF)	13,398,598
Est. SDGE UAF% Fixed Elevation Zone 1 (SDGE assumes Zone 1)	-0.07%
SDGE UAF MCF Fixed Elevation Zone 1	-9,379
Total SDGE UAF MCF Fixed Factor Altitude & Elevation Zone	194,497

The SDG&E Fixed Factor Elevation gas LUAF contribution customer allocation is 100% to core customers.

APPENDIX L

Fixed Factor Calculation of Super Compressibility

The 1991 Fixed Factor Calculation of Super Compressibility gas LUAF % is shown in 1991 LUAF Measurement report Table 3.1.4-2. SoCalGas' 2006 update to this Table, shown in Table L-1, incorporates a measured 2006 average gas temperature of 63.72 degrees F and a much smaller volume of customer volumes subject to this volume due to changes in employed measurement technology. Another source of improvement is better data used for N2 and CO2 factors for Super compressibility calculation. Electronic Correctors assumed 0% CO2 and N2 in 1991, while values closer to actual gas content in are now incorporated into billing processes.

Year 2006 LUAF% for Super compressibility bias was calculated and applied to the 2006 Volumes for the following two categories of meter sets where Super Compressibility is still calculated using fixed values for Temperature and Gas Quality: Temporary Gauge and Electronic Corrector-served customers. The total gas LUAF contribution related to Super compressibility factor bias is shown in Table L-1 to be a LUAF reduction of 44,947 Mcf (46,371 MMBtu).

The large decrease in 2006 vs. 1991 gas LUAF over-registration bias (425,932 vs. 44,947 Mcf) for Fixed Factor Calculation of Super Compressibility was attributable to SoCalGas' use of actual temperature, pressure and gas quality when calculating corrected volume starting in 1999 for all non-core meters sets except those with Temporary Gauges and Electronic Correctors. Thus, the volumes subject to super-compressibility calculation bias has decreased substantially.

Table L-1
SoCalGas Fixed Super Compressibility gas LUAF contribution

Fixed Super Calc Meter Sets	2006 Billing Volume (MCF)	2006 Calc'd %UAF	2006 UAF Volume (Fixed Factor Super Calc)
Temporary Gauges See Note 1	13,671,928	-0.04%	-4,785
Electronic Correctors See Note 2	22,311,895	-0.18%	-40,161
2006 Total (Actual T 2006 = 63.7) (Billing T 2006 = 60 F)	35,983,823	-0.12%	-44,947
1991 Totals	159,387,774	-0.27%	-425,932

Note 1: Temporary Gauges Billing & Actual Assume SG=0.5918; N2=1.592;CO2=1.507

Note 2: Electronic Correctors Billing Assumes SG=0.6 and N2=CO2=0.0

Electronic Correctors Actual Assumes same values listed in Note 1.

SDG&E

SDG&E LUAF for this component was calculated by applying SoCalGas calculate bias to SDG&E volumes subject to the same measurement imperfections. The result, shown in Table L-2, is a gas LUAF reduction of -16,164 Mcf (16,445 MMBtu) for SDG&E in 2006.

Table L-2

SDG&E Fixed Factor Super Compressibility	
SDG&E Volume Fixed Factor Super Compressibility	13,469,812
Estimated SDG&E UAF% Fixed Factor Super	-0.12%
SDG&E UAF MCF Fixed Factor Super Compressibility	-16,164

The allocation of Fixed Factor Super compressibility gas LUAF is 100% to core customers for both SoCalGas and SDG&E, as non-core customers are equipped with gas quality and temperature devices used to calculate real-time compressibility factors.

APPENDIX M

2006 UAF Estimate in Reference to 1991 Assessment PD Meter Accuracy

I. Introduction

PD Meter is the abbreviation for Positive Displacement Meter. A PD gas meter is a diaphragm-operated or rotary device that is designed to measure a specific volume of gas in one cycle. These finite volumes are counted and displayed on the meter's index dials or counters.

PD meters are classified by three major meter groups:

1. Small diaphragm meters (up to 500 CFH or Sizes 1, 2 and 3).
2. Large diaphragm meters (500 CFH or larger, Size 4 and larger).
3. Rotary meters.

The meter accuracy, either under or over volume registration, of all 5.4 million PD meters collectively contributed a significant amount of LUAF in 2006.

II. PD Meter Accuracy

The accuracy profile is a function of the flow rate. To assess the consumption behavior of small meter accounts, SoCalGas conducted an extensive study in 1991 to identify the gas consumption volume at various flow rates for Company six weather zones. The small meter accuracy curves were also developed for a few meter types by using eight flow rates. The LUAF was derived from the integration of these two sets of data. Another LUAF contributor – no registration at low flow, was also quantified for small diaphragm meters.

At the same time, the LUAF from the large PD and rotary meters was calculated from 1991 PMC results. Volume III (Accounting-P.59) of the 1991 LUAF study discusses the PD Meter gas LUAF contribution of 2,957,299 Mcf in that year.

III. 2006 Method for SoCalGas LUAF

The 1991 LUAF study was a major company wide effort in SoCalGas and took two years to complete. It laid out a format that was used for 2006 assessment. A benefit from adopting the 1991 format was that many studies completed for the 1991 LUAF assessment were still valid for 2006. The parameters developed and used in 1991 were used in 2006. Only certain major factors had to be updated with 2006 data. The following 1991 parameters were adopted for 2006:

1. The consumption volume % vs. flow rates was unchanged.
2. The accuracy curve for various flow rates was true because the PD meter technology had not changed since 1991.
3. The no registration at low flow was true because of the same reason as (2).

IV. 2006 Update for SoCalGas LUAF

Similar to the 1991 study, the LUAF contributed by PD meter accuracy was the sum of two parts:

1. Small meter low flow non-registration.
2. Meter accuracy calculated from the annual Meter Performance Control Program (MPCP) testing results.

To make the assessment comparable to the 1991 results, all PD meters, their annual volume delivery, and MPCP testing results were summarized by major PD meter types. Then, the same calculation routines used in 1991 were also applied to compute the associated 2006 LUAF volumes.

V. 2006 Results for SoCalGas

The 2006 LUAF contributed by PD meters is summarized in the following table.

Table M-1

Study Area	Core UAF (MCF)	Non-Core UAF (MCF)	All Accounts UAF (MCF)
Small Meter Accuracy	-202,179	-7	-202,187
Small Meter Low-Flow Non-Registration	2,596,677	4	2,596,681
Large Diaphragm Accuracy	921	1	922
Rotary meter Accuracy	-150,654	-283	-150,937
Total PD Meter UAF	2,244,765	-286	2,244,479

In 1991, the PD meter LUAF was 2,957,299 MCF. There was some reduction in 2006. It was due to the meter demographics changes that had occurred in the past 15 years. The following were observed in the data:

1. The tin meter population was reduced from 827,000 in 1991 to 132,000 in 2006. The tin meter was a positive LUAF contributor.
2. Aluminum meters had increased and become the dominant group in the past 15 years. The population had grown from 2.4 million in 1991 to 4.1 million in 2006. It was a negative LUAF contributor.
3. The large diaphragm meters were decreased and replaced by rotary meters in the last 15 years. The large diaphragm meters were positive LUAF contributors while rotaries were negative. However the LUAF of large PD meters was improved in 2006. It was due to two reasons:

- (a) Better testing technologies and procedures were developed for rotary meters.
- (b) Aluminum bodies replaced iron bodies for rotary meters. It improved the meter accuracy.

VI. 2006 LUAF Assessment for SDG&E

SDG&E has not assessed PD meter LUAF in the past. There is no format that can be adopted for 2006 update. To make a logical assessment, the SoCalGas framework was used for 2006. It is based on the following facts:

- 1. SDG&E uses the same meter technologies as SoCalGas.
- 2. Meters used by SDG&E have the same performance profile as SoCalGas’.
- 3. The consumption behavior of SDG&E’s residential customers is the same as SoCalGas’.

Table M-2 below shows the results for SDG&E.

Table M-2

Study Area	Core UAF (MCF)	Non-Core UAF (MCF)	All Accounts UAF (MCF)
Small Meter Accuracy	53,388	0	53,388
Small Meter Low-Flow Non-Registration	371,438	0	371,438
Large Diaphragm Accuracy	19,883	0	19,883
Rotary meter Accuracy	99,140	370	99,510
Total PD Meter UAF	543,849	370	544,219

The allocation of PD Meter LUAF is virtually 100% to core customers for both SoCalGas and SDG&E based on the 2006 volumes passing through these meters to serve each customer type.

APPENDIX N

Orifice Meter Accuracy

Orifice meters are used for major customer deliveries, interstate supply, local gas production (supplies) and storage gas measurement. The 1991 LUAF study Measurement Volume discusses Orifice Meter Accuracy and its LUAF contribution of 5,849,534 Mcf in that year. The 1991 results are summarized in Table N-1 below.

Table N-1

Orifice Meter Category	1991 Volume	1991 UAF%	1991 UAF (Mcf)
Supplier	963,052,498	0.80%	7,704,420
Producer	95,527,528	0.30%	286,583
Delivery	364,526,676	-0.58%	-2,114,255
Storage Withdrawal	95,290,197	0.33%	314,458
Storage Injection	103,536,910	-0.33%	-341,672
1991 Totals	1,621,933,809	0.36%	5,849,534

In reviewing the 1991 UAF Study (Table 3.2.2-1 of the Measurement Report) it was determined that 1991 calculated gas LUAF contributions were no longer applicable and should be recalculated for Orifice Meter Accuracy. Year 2006 supplier and customer orifice meter volumes are 50% less than what they were in 1991. The reduced volume is now being measured by ultrasonic meters. In addition, 2 of the 5 sampled supplier orifice meter runs and 11 of the 15 sampled Customer orifice meter runs in the 1991 UAF Study have been removed from service. Moreover, SoCalGas testing on a removed 12" and 16" Customer Orifice Meter tube in 2006 confirmed that both meters runs under-measured by 0.8% and 0.3% respectively. 2006 Billing Volumes for Customer, Producer, Supplier and Storage Withdrawal and Injection Meters were obtained from MCS. The 2006 Orifice Meter test results were used to calculate an estimated average orifice meter error for the different categories of orifice meters. Table N-2 below shows the 2006 contribution to LUAF by meter use category.

Table N-2
2006 Meter Accuracy Contribution to Total Measurement UAF

Orifice Meter Category	2006 Volume	Meter Accuracy	UAF %	UAF Volume
Supplier	620,936,012	slow meter	0.62%	3,835,149
Producer	50,799,175	slow meter	-0.50%	-253,996
Delivery	115,607,670	slow meter	0.50%	578,038
Storage Withdrawal	90,112,226	slow meter	-0.50%	-450,561
Storage Injection	85,743,196	slow meter	0.50%	428,716
2006 Totals	963,198,279		0.43%	4,137,346

SDG&E:

SDG&E allocations are based on SoCalGas' test results and SDGE 2006 volumes by meter service. Table N-3 shows the summary of these calculations and the SDG&E gas LUAF contribution of -26,052 Mcf, a net reduction in LUAF for 2006.

Table N-3

SDG&E Orifice Meter Accuracy

SDG&E 2006 Orifice Meter Volume Supplier (UAF% = -0.5%)	5,453,992
SDG&E 2006 Orifice Meter Volume Customers (UAF% = +0.5%)	243,680
SDG&E 2006 UAF Volume (MCF) Suppliers	-27,270
SDG&E 2006 UAF Volume (MCF) Customers	1,218
SDG&E 2006 UAF Volume - Orifice Meter Accuracy	-26,052

The allocation of orifice meter gas LUAF to customer class was based on calculations which assigned supply volumes to core and non-core by aggregate use, while the Delivery/Customer volumes were assigned exclusively to non-core customers, the only customers served by orifice meters. The results are SoCalGas non-core - 69.9%, core 30.1%; SDG&E non-core - 57.6%, core 42.4%.

APPENDIX O

Ultrasonic Meter Accuracy

There were no Ultrasonic Meters installed in 1991. The computation of Ultrasonic meter gas LUAF contribution was completed using the gas LUAF% meter factors shown in Table O-1 below and applying these projected meter registration deviations to 2006 volumes for all company and supplier ultrasonic meters. The UAF% factors are based on test results and industry information on the types of meters used by SoCalGas and its suppliers. Table O-1 shows over-registration on both the supply and delivery side for SoCalGas, with the net effect a 205,780 Mcf reduction to LUAF on the SoCalGas system.

Table O-1

Ultrasonic Meter Category	2006 Volume	Meter Accuracy	UAF %	UAF Volume
Supplier (see below)	275,504,405	fast meter	0.22%	597,867
Delivery - Customer (see below)	225,360,905	fast meter	-0.36%	-803,861
Storage W/D Daniel Mtr PDR	3,270,934	fast meter	0.13%	4,252
Storage Injection Daniel Mtr PDR	3,106,221	fast meter	-0.13%	-4,038
2006 Totals	507,242,465		-0.04%	-205,780

SDG&E:

SDG&E Ultrasonic meter LUAF contribution is based on a SoCalGas test results, specific meter activity and SDGE 2006 volumes by meter service. Table O-2 shows the summary of these calculations and the SDG&E gas LUAF contribution of 509,059 Mcf in 2006.

Table O-2

SDG&E Ultrasonic Meter Data	
SDG&E 2006 Ultrasonic Meter Volume Supplier (Mcf)	113,952,358
SDG&E 2006 Ultrasonic Meter Volume Customer (Mcf)	30,351,489
SDG&E Ultrasonic Meter LUAF Contribution	
SDG&E 2006 UAF Volume (MCF) Suppliers (UAF% = +0.5%)	569,762
SDG&E 2006 UAF Volume (MCF) Customers (UAF% = -0.2%)	<u>-60,703</u>
SDG&E 2006 UAF Volume Contribution from Ultrasonic Meters-total	509,059

The 2006 allocation of ultrasonic meter gas LUAF to customer class is based on calculations which assigned supply volumes to core and non-core by aggregate use, while the Delivery/Customer volumes were assigned exclusively to non-core customers, the only customers served by ultrasonic meters. The results are SoCalGas - non-core - 441,216 MMBtu (credit) due to over registration, core - 228,963 MMBtu LUAF contribution. SDG&E non-core - 232,171 MMBtu, core 285,739, both LUAF contributions.

APPENDIX P

Turbine Meter Accuracy

Turbine meters are used by both companies to serve mainly non-core customers. Volume III (Accounting-P.99) of the 1991 LUAF study discusses Turbine Meter Accuracy and its LUAF contribution of -912,157 Mcf in that year. As in 1991, this gas LUAF component is based on the results of lab calibration tests for meters removed from service and includes field calibration (Aux factors) which now places the lab calibration bias number in the field devices to provide true zero meter registration upon installation. Table P-1 below shows the results of turbine meter tests in 2006 to average 0.39% over registration across the different types of meters. Overall these results show a slight increase from 1991.

**Table P-1
2006 and 1991 LUAF factors for turbine meters from test data**

SoCalGas Company	UAF Factor W/ Aux Factor	UAF Factor W/O Aux Factor	1991 Report	Diff
AAT-18	-0.15%	-0.10%	-0.10%	0.05%
AAT-30	-0.29%	-0.24%	-0.26%	0.03%
AAT-60	-0.11%	-0.36%	-0.44%	-0.33%
AAT-140	-0.69%	-0.27%	-0.45%	0.24%
Other Types	-0.39%	-0.40%	-0.41%	-0.02%
System UAF	-0.39%	-0.40%	-0.34%	0.05%

Table P-2 below shows the integration and application of individual turbine meter species' test results to the SoCalGas customer volumes associated with these meter types. The net result is a volume-weighted 0.28% over registration for all turbine meter volumes. This equates to 797,839 in over registration and associated reduction in LUAF.

**Table P-2
2006 Gas LUAF for SoCalGas Turbine meters by type.**

SoCalGas Sample Meter Volumes Meter Type	2006 Sample Meters			Total 2006 System	
	Recorded Volume (MSCF)	UAF Volume (MCF)	UAF Factor	Recorded Volume MSCF	UAF Volume (MSCF)
AAT-18	14,726,622	(22,515)	-0.15%	41,271,763	(63,100)
AAT-30	7,630,933	(21,877)	-0.29%	39,880,742	(114,335)
AAT-60	10,771,986	(11,639)	-0.11%	37,532,194	(40,554)
AAT-140	9,250,414	(63,970)	-0.69%	81,176,600	(561,367)
Other Types			-0.28%	6,600,752	(18,482)
Totals:	42,379,955	(120,002)		206,462,051	(797,839)
Average Sample UAF Factor =	-0.28%			Average System UAF Factor =	-0.39%
				1991 Average System UAF Factor = -0.34%	

SDG&E:

San Diego Gas & Electric’s turbine meter associated LUAF was based on a similar methodology to SoCal Gas and also compensated for the fact that SDG&E does not include a meter aux factor in its field configuration. Table P-3 shows the result of 73,178 Mcf over-registration based on SDGE meter test results of 0.23% over-registration. This bias was applied to SDG&E 2006 turbine meter volumes.

Table P3

SDG&E Sample Meter Volumes	2006 Sample Meters			Total 2006 System	
	Recorded Volume (MSCF)	UAF Volume (MCF)	UAF Factor	Recorded Volume MSCF	UAF Volume (MSCF)
Totals:	42,403,990	(95,967)		32,334,490	(73,178)
Average Sample UAF Factor =	-0.23%			Average System UAF Factor =	-0.23%

The allocation of Turbine Meter gas LUAF is 97.33% to non-core for SoCalGas and 96.69% to non-core for SDG&E based on turbine meter volumes per core vs. non-core customers. Nearly all turbine meters serve non-core customers in both companies.

APPENDIX Q

Instrument Calibration Bias Gas LUAF Component

Electronic instruments are used on approximately 10,000 SoCalGas customer accounts to correct for temperature, pressure and/or gas quality. The calibration of these devices can shift between scheduled calibration periods. Instrument Calibration Bias gas LUAF contribution is calculated from actual field audits performed in 2006 (using “as-found” data) for customer, supplier and storage meters where electronic correction is performed, and now includes the sub-component Ambient Temperature Effect on Instrumentation.

Table Q-1 shows the result of SoCalGas’ calibration as-found results by major instrument type in 2006. This table also contains the volumes served by these instruments and the calculated contribution to LUAF in 2006. The SoCalGas total is -261,961 Mcf, a net LUAF reduction.

Table Q-1

Customer Other than orifice and ultrasonic:			error%
Temporary Gauges	15,486,336	-2,113	-0.01%
MINI-AT	82,152,739	99,424	0.12%
ECAT	42,501,793	-44,167	-0.10%
TOC	52,022,099	-9,403	-0.02%
OMNI	72,462,221	31,254	0.04%
Totalflow	58,766,964	-4,923	-0.01%
GM	2,700,154	-2,713	-0.10%
Subtotal	326,092,307	67,359	0.03%

Ultrasonic Meters			
Supplier	275,504,405	118,828	-0.04%
Customer	225,360,904	97,200	0.04%
Subtotal	500,865,309	-21,627	0.00%

Orifice Meters			
Supplier	620,936,012	335,325	-0.05%
Producer	50,799,175	-27,433	-0.05%
Customer	115,607,670	62,432	0.05%
Subtotal	787,342,857	300,326	-0.04%

Ultrasonic Meters			
Injection	3,106,221	-1,340	-0.04%
Withdrawal/Injection	3,270,934	1,411	0.04%
Subtotal	6,377,155	71	0.00%

Orifice Meters				
Injection	85,743,196	-46,304		-0.05%
Withdrawal/Injection	90,112,226	38,866		0.05%
Subtotal	175,855,422	-7,438		0.00%
Total	1,796,533,050	261,961	Wt Avg	0.015%

The SoCalGas allocation is 99% to the non-core customer class based on weighted delivered volume considerations. Core allocation is 1%.

SDG&E:

SoCalGas' average recorded instrument error of 0.015% (over-registration) was applied to associated SDG&E customer and supply meters to compute the 2006 Instrument Bias gas LUAF component for SDG&E. There are many similar electronic instruments used between the companies. The results are shown in the Table Q-2 below to be an 11,325 Mcf reduction to gas LUAF. The allocation is 89% to the non-core customer class based on weighted volume considerations. Core allocation is 11%.

Table Q-2
SDGE instrument bias

SD Instrument Volumes			Split	
Noncore		68,460,246	Noncore	89.04%
Core	Rotary TG w/ TC	4,425,025	Core	10.96%
Core	Rotary w/Instrum	2,641,777	Total	
Core	Rotary w/TC	286,606		
Core	Turbine	1,070,770		
Total		76,884,424	Groups with Instruments	76,884,424
Bias		-0.015%	Core Standard Groups	39,207,012
Error		(11,325)	Total MCF	116,091,437
LUAF		(11,325)		

APPENDIX R

Ambient Temperature Effect on Instrumentation

Ambient Temperature Effect on Instrumentation – Ambient temperature effect is now included in the subcomponent “Instrument Calibration Bias” for both companies.

APPENDIX S

Chart Integration Bias

Measurement pen chart technology has been replaced by electronic measurement for both SoCalGas and SDG&E since 1991. There is no 2006 measurement component for either company.

APPENDIX T/U

Distribution and Transmission Leakage

This Appendix contains the results for both Distribution and Transmission gas LUAF leakage calculations for SoCalGas and SDG&E in 2006. This is leakage resulting from pipeline gas escape and gas blow-by events from gas compression operations which are otherwise neither metered nor form-reported for inclusion as “Company Use” in SDG&E's and SoCalGas' accounting systems.

Raw Data Sets for Distribution and Transmission and distribution pipeline leak contribution to gas LUAF are shown in Table T/U-1.

Table T/U-1
SoCalGas/SDG&E Base Leak data and volumetric LUAF contribution.

DATA SETS				DATA NOTES:
Item	Description	value	unit	
A	SoCalGas Transmission Line Miles from 1991 LUAF report	4000	miles	report rounded to 4000
B	SoCalGas Transmission Line Miles from 2006 Annual Report to CPUC	3926	miles	
C	SoCalGas Distribution main miles 2006 Annual CPUC report	46711	miles	
D	SDGE Transmission Line Miles from 2006 Annual Report to CPUC	240	miles	
E	SDGE Distribution main miles 2006 Annual CPUC report	8189	miles	
F	1991 SoCalGas Transmission pipeline leak volume	9135	Mcf	
G	2006 Transmission Compressor Station Leakage (Mejia)	20789	Mcf	2006 runtime with 1991 factors per unit
H	2006 SDGE Compressor Station Leakage (Mejia)	1129	Mcf	2006 runtime with SCG 1991 factors per comparable SCG unit in 1991
I	2006 Distribution Leak data - Gas Engineering (Schneider/Newton)	566861	Mcf	2006 newly developed data-Gas Engineering report

Updated 2006 calculations for leakage associate with compressor station operation for both SDG&E and SoCalGas are show in Table T/U-2. This Table shows the 2006 run hours for each station and the hourly leak factors used to calculate leakage for each company. The results show the SoCalGas gas LUAF contribution to be 20,789 Mcf from compressor station operation, while the SDG&E sub-component is 1129 Mcf.

Table T/U-2

Compressor Station 2006 Leak Contributions to LUAF in MCF- SoCalGas and SDG&E

	CFH/Unit	2006 hours	MCF Gas
<u>Turbines</u>			
Kelso	1,824	851	1552
Cactus City	1200	0	0
Desert Center	1500	0	0
Adelanto	2150	0	0
Wheeler Ridge	91.2	4569	417
		Turbines =	1969
<u>Reciprocating Compressors</u>			
South Needles	240.1	39482	9480
North Needles	380	5320	2022
Newberry	240.1	27164	6522
Blythe	38	16690	634
Ventura High-P	34	4789	163
Ventura Low-P	3	0	0
Sylmar	34	0	0
SoCalGas Total:		98865	20789
<u>SDGE</u>			
Moreno -recip	38	9410	358
Moreno-Turb	91.2	8393	765
Rainbow	38	149	5.662
SDGE Total		17952	1129

Table T/U-3 shows the 2006 compilation results for Transmission and Distribution leakage for both SDG&E and SoCalGas. The SoCalGas Distribution leak total (566,861 Mcf) is taken directly from a Gas Engineering report using updated 2006 pipeline leakage data. SDG&E distribution leakage was computed by scaling the SoCalGas result using relative distribution pipeline mileage between the two companies. The SDG&E 2006 result for distribution leakage gas LUAF contribution is 99,378 Mcf.

The total Transmission Leak gas LUAF component is the sum of compressor station leakage and computed transmission line leakage for each company. The totals are shown below under items 3 and 4 as 29,755 Mcf for SoCalGas and 2,948 Mcf for SDG&E.

Table T/U-3

Item	LUAF Component in 2006	Value	Unit	Notes on Calculation/Source
1	SoCalGas Distribution Leak Mcf	566,861	Mcf	Data from Gas Engineering 2006 Calculation
2	SDGE Distribution Leak Mcf	99,378	Mcf	Use SCG 2006 calc and apportion based on Distribution Main miles SDGE/SC
3	SoCalGas Transmission Leak Mcf	29,755	Mcf	Compressor Station Plus Pipeline Use 1991 factors with 2006 runtime Use SCG and ratio of SDGE/SCG transmission line mileage and new 2006
4	SDGE Transmission Leak Mcf	2,948	Mcf	Compressor run time with 1991 factors

Allocation of system leak gas LUAF contribution to customer class is based on which pipelines are used to serve customers on a volume-weighted basis. Transmission leakage is a component fully shared by core and non-core customer classes based on the ratio of delivered energy to these customer classes (every customer essentially uses transmission lines.) The allocations for transmission leakage are SDG&E: core- 40.55%, non-core 59.55%; SoCalGas: core - 37.1%, non-core - 62.9%.

Distribution leak allocation is based on the proportion of customer volumes which are served via distribution lines. All core customers and a subset of non-core customers are served by distribution pipelines. The allocation for distribution leakage is 76.48% core and 23.52% non-core for both companies.

APPENDIX V

Theft

Two calculation methods were used in the 1991 study and the method with the larger amount of LUAF was chosen. After updating these calculations for customer growth and other factors, an average of the two calculation methods was used for this revision resulting in a slight decrease in the percentage of this sub-component. This component was estimated for SDG&E based on SoCalGas' proportion of LUAF for the same category using SDG&E volumes. Table V-1 below shows the SoCalGas result to be 397,288 Mcf while Table V-2 shows the SDGE component to be 54,134 Mcf.

**Table V-1
SDG&E Theft Calculation Sheet**

	<u>Residential</u>		<u>Non-Residential</u>	
	1991	2006	1991	2006
Customers	4,430,000	5,367,739	218,669	268,556
customers who steal	3,207	3,886	592	728
% customers who steal	0.072%	0.072%	0.271%	0.271%
Ave Gas Stolen/convicted cust	71.4	69.24	333.3	176.23
Total Stolen MCF	228,980	269,067	197,460	128,221
Percent of Total	54%	68%	46%	32%
2006 Total Stolen MCF	397,288			

**Table V-2
SDG&E Theft Calculation Sheet**

	Residential		Non-Residential	
	SoCal 1991	SD 2006	SoCal 1991	SD 2006
Customers	4,430,000	802,140	218,669	29,167
customers who steal	3,207	581	592	79
% customers who steal	0.072%	0.072%	0.271%	0.271%
Ave Gas Stolen/convicted cust	71.4	69.24	333.3	176.23
Total Stolen MCF	228,980	40,209	197,460	13,926
Percent of Total	54%	74%	46%	26%

Total Stolen MCF 54,134

Residential theft was assigned to core market while non-residential theft has been allocated to non-core customers for both companies. The results are: SoCalGas Core - 68%, non-core 32%; SDG&E core 74%, non-core 26%.

APPENDIX W

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