Exhibit No.:	
Application:	<u>A.22-09-015</u>
Witness:	Sharim Chaudhury Michael Foster
Chapter:	<u>13a</u>

PREPARED DIRECT TESTIMORNY OF

IFTEKHARUL (SHARIM) CHAUDHURYMICHAEL FOSTER

ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

AND SAN DIEGO GAS & ELECTRIC COMPANY

(RATE DESIGN)

September 30, 2022 (Errata <u>redlined</u> dated July 24, 2023)

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1	CHAPTER 13
2	PREPARED DIRECT TESTIMONY OF SHARIM CHAUDHURY
3	(RATE DESIGN)
4	I. PURPOSE
5	The purpose of my testimony is to present the illustrative 2024 natural gas transportation
6	rates of Southern California Gas Company (SoCalGas) and San Diego Gas & Electric Company
7	(SDG&E) (collectively, Applicants). These proposed rates reflect revisions to present rates
8	based on Applicants' cost allocation proposals in this proceeding to allocate each utility's
9	authorized base margin ¹ across customer classes, as well as the demand forecast proposals in this
10	proceeding to determine rates. Applicants' various cost allocation proposals, based on updated
11	cost studies, are described by witnesses Manuel Rincon and Jimmy Yen (Chapter 1), Frank Seres
12	(Chapter 8), Marjorie Schmidt-Pines (Chapter 9), and Michael Foster (Chapter 10). Applicants'
13	demand forecast proposals are consolidated by witness Wei Bin Guo (Chapter 5). My testimony
14	also incorporates the recommendations provided by witness N. Jonathan Peress (Chapter 14).
15	Finally, to be consistent with the CPUC-adopted four-year general rate cycle (GRC), starting
16	with this cost allocation proceeding, Applicants propose a four-year cost allocation proceeding
17	(CAP) cycle.
18	A. Overview of Rate Design

Applicants' rate design models start with the proposed allocated base margin, and then
incorporate the integration of the local transmission system costs for the two utilities,² along with

¹ Base margin is authorized by the California Public Utilities Commission (Commission) in the General Rate Case (GRC) or equivalent cost of service proceedings.

² This integration reflects the splitting of total local transmission costs between the utilities by their respective percentage share of cold-year peak month throughput.

the unbundling of the Backbone Transportation Service (BTS) costs.³ Additionally, Applicants' 1 2 rate design models recover in rates all relevant Commission-authorized non-base margin costs 3 during the cost allocation time horizon. These non-base margin costs include, but are not limited to, unaccounted-for gas (UAF),⁴ company-use fuel, regulatory account balances (over-or-under 4 5 collections), and any additional revenue requirements authorized by the Commission in 6 proceedings outside the GRC.

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В. Non-Margin Cost Allocation and Rate Design Proposals

Except as noted below, the methods employed to develop and allocate non-margin costs are consistent with those adopted in the 2020 Triennial Cost Allocation Proceeding (TCAP) decision, (D.) 20-02-045.

My testimony incorporates the following rate design and non-margin cost allocation proposals in this proceeding:

13	(1)	Retain SoCalGas's current \$5 per month residential non-CARE fixed
14		customer charge in 2024, and then phase-in increases in customer charge
15		(and commensurate decreases in volumetric rates) from \$5 to \$10 in 2025,
16		\$10 to \$15 in 2026, \$15 to \$20 in 2027 (the corresponding proposed
17		residential CARE fixed customer charges are \$4, \$5, \$7.50 and \$10 in
18		2024, 2025, 2026 and 2027 respectively) ⁵ ;

BTS costs represent the costs of SoCalGas's and SDG&E's backbone transmission service from the Southern California border receipt points to SoCalGas's Citygate.

As described by witness Wei Bin Guo (Chapter 5), UAF gas is the difference between total receipts into SoCalGas's and SDG&E's respective service territories and total deliveries within SoCalGas's and SDG&E's respective service territories over a specified period.

Fixed customer charges are often discussed in this testimony as a monthly charge for convenience; in practice, fixed customer charges are billed as a per-meter per-day charge, which is derived from the monthly proxy. For example, a \$5 per month fixed customer charge is billed as \$0.16438 per-meter per-day (\$5 per month * 12 months / 365 days).

1	(2)	Retain SDG&E's current residential non-CARE minimum bill of \$4 per
2		customer per month in 2024 through 2027 (the corresponding residential
3		CARE minimum bill would be \$3.20 per month);
4	(3)	Update SoCalGas's and SDG&E's respective residential submeter credits;
5	(4)	Update SoCalGas's and SDG&E's Natural Gas Vehicle (NGV) station
6		compression costs;
7	(5)	Update SoCalGas's and SDG&E's Self Generation Incentive Program
8		(SGIP) cost allocation across customer classes; and
9	(6)	Propose a method to allocate SoCalGas's Storage Load Balancing Plus
10		Function costs, described by witness Frank Seres (Chapter 8), across
11		customer classes.
12	(7)	Propose a four-year CAP cycle.
13	C. Illust	rative 2024 Rates
14	The allocated	non-margin costs are added to the allocated base margin costs to derive the
15	allocated transportati	ion revenue requirement by customer class. The allocated transportation
16	revenue requirement	s by customer class become the starting point for the development of rates
17	for each customer cla	ass.
18	To be consist	ent with the CPUC-adopted four-year general rate cycle, starting with this
19	cost allocation proce	eding, Applicants propose a four-year CAP cycle. As such, Applicants have
20	used four-year avera	ge gas demand forecasts (2024 through 2027) for allocating costs across
21	customer classes, as	described in the testimonies of Marjorie Schmidt-Pines for SoCalGas
22	(Chapter 9), and Mic	chael Foster for SDG&E (Chapter 10). Likewise, for calculating rates
23	proposed in this CAI	P, Applicants have used four-year average gas demand forecasts.

- 3 -

Table 1 and Table 2 below show, respectively, SoCalGas's and SDG&E's present classaverage transportation rates (as of March 1, 2022), illustrative 2023 rates, and the 2024 illustrative rates proposed in this proceeding.⁶ The rate changes between the present 2022 and 2024 proposed rates can best be explained as the sum of rate changes between the present and 2023 rates and rate changes between the 2023 and proposed 2024 rates.

Present 2022 rates reflect the cost allocation results and gas demand forecasts adopted in Applicants' 2020 TCAP decision. The 2023 rates represent the Commission-ordered⁷ updates to the 2020 TCAP cost allocation studies reflecting more recent historical costs since the 2020 TCAP.⁸ Applicants will implement the resulting updated rates on January 1, 2023. Proposed 2024 rates reflect a new set of updated cost studies and gas demand forecasts proposed in this CAP. Except for the updated cost studies, the 2023 rates are based on the same demand forecasts, base margins and regulatory account balances as in present rates. As discussed by witnesses Rose-Marie Payan (Chapter 3), Jeff Huang (Chapter 4) and Wei Bin Guo (Chapter 5), the Applicants' gas demand forecast is generally declining for customer classes relative to the forecasts adopted in the 2020 TCAP. Applicants' 2024 proposed rates are derived using the present base margins and present regulatory account balances. Witness S. Nasim Ahmed

⁵ 2023 and 2024 rates are illustrative because, as of now, Applicants do not know their respective approved revenue requirements to be recovered in rates for these years. While Applicants know the 2023 base margins to be recovered in rates, they do not know the regulatory account balances at the end of 2022 to be amortized in 2023 rates. For 2024, Applicants do not know either the base margins or the regulatory account balances at the end of 2023 to be amortized in 2024 rates. Consistent with past practices, to isolate the impacts of demand forecast and cost allocation proposals, Applicants have held the respective base margins and regulatory account balances at the present 2022 levels. In this testimony, when I refer to 2023, 2024 and beyond rates, I mean illustrative rates.

See D.21-07-019, Decision Addressing San Diego Gas & Electric Company and Southern California Gas Company Petition for Modification of Decision 20-02-045 at 16 (Ordering Paragraph (OP) 1).

⁸ See SoCalGas Advice Letter No. 5907 for its updated cost allocation, available at <u>https://tariff.socalgas.com/regulatory/tariffs/tm2/pdf/5907.pdf</u>. See SDG&E Advice Letter No. 3042-G for its updated cost allocation, available at <u>https://tariff.sdge.com/tm2/pdf/3042-G.pdf</u>.

1 (Chapter 6) and witness Jason Kupfersmid (Chapter 7) discuss, respectively, the current

2 regulatory account balances in their testimony.

Table 1 below shows SoCalGas's present class-average transportation rates (as of March

1, 2022), illustrative 2023 rates, and the 2024 illustrative rates proposed in this CAP.

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Table 1 – SoCalGas Natural Gas Transportation Rates (2022-2024)⁹

			D-			D-	an a ca d Data		Proposed Rates			
				esent Rates	Mar. 4.00		oposed Rate			•		
			Mar-1-22 Volumes	Proposed Rate	Mar-1-22 Revenues	Jan-1-23 Volumes	Proposed Rate	Jan-1-23 Revenues	Jan-1-24 Volumes	Proposed Rate	Jan-1-24 Revenues	
			Mth	s/therm		Mth	s/therm		Mth	s/therm		
			IVITU	⊅/merm	\$000's	with	\$/therm	\$000's	IVITI	⊅/tnerm	\$000's	
	1	CORE										
	2	Residential	2,346,353	\$1.09046	\$2,558,598	2,346,353	\$1.02748	\$2,410,835	2,185,983	\$1.08409	\$2,369,804	
	3	Commercial & Industrial	992,706	\$0.63128	\$626,673	992,706	\$0.60845	\$604,009	880,320	\$0.68892	\$606,473	
	4	NGV - Post Sempra-Wide	178,769	\$0.35409	\$63,300	178,769	\$0.34973	\$62,521	167,083	\$0.44946	\$75,098	
	5	Gas A/C	416	\$0.27022	\$112	416	\$0.27037	\$113	140	\$0.43091	\$61	
	6	Gas Engine	22,302	\$0.25948	\$5,787	22,302	\$0.25950	\$5,787	19,830	\$0.26166	\$5,189	
	7	Total Core	3,540,545	\$0.91920	\$3,254,471	3,540,545	\$0.87084	\$3,083,265	3,253,356	\$0.93953	\$3,056,624	
	8											
	9	NONCORE COMMERCIAL & INDUSTRIA	L									
	10	Distribution Level Service	919,735	\$0.18162	\$167,045	919,735	\$0.18031	\$165,835	894,285	\$0.20069	\$179,471	
	11	Transmission Level Service	626,080	\$0.03353	\$20,994	626,080	\$0.03979	\$24,911	750,680	\$0.05321	\$39,943	
	12	Total Noncore C&I	1,545,814	\$0.12164	\$188,039	1,545,814	\$0.12340	\$190,746	1,644,965	\$0.13338	\$219,414	
	13											
	14	NONCORE ELECTRIC GENERATION										
	15	Distribution Post Sempra Wide	331,442	\$0.15591	\$51,675	331,442	\$0.15697	\$52,026	335,280	\$0.18255	\$61,206	
	16	Transmission Level Service	2,246,336	\$0.03273	\$73,532	2,246,336	\$0.03899	\$87,587	1,800,969	\$0.05233	\$94,253	
	17	Total Electric Generation	2,577,778	\$0.04857	\$125,206	2,577,778	\$0.05416	\$139,613	2,136,249	\$0.07277	\$155,460	
	18		0			28%						
	19	TOTAL RETAIL NONCORE	4,123,593	\$0.07596	\$313,245	4,123,593	\$0.08011	\$330,359	3,781,214	\$0.09914	\$374,873	
	20		, .,		4 7 -	, .,		4 /	-/ - /			
•	21	Total Wholesale Incl SDG&E	1,477,881	\$0.02916	\$43.099	1,477,881	\$0.03565	\$52,687	1,244,496	\$0.04736	\$58,940	
	22		.,,		•••••••	.,,		** =,***	.,,		*** ,***	
	23	TOTAL NONCORE	5,601,473	\$0.06362	\$356,344	5,601,473	\$0.06838	\$383,047	5,025,711	\$0.08632	\$433,814	
	24		0,001,110	<i>\\</i> 0.00002	4000,011	0,001,110	<i>Q</i> 0.00000	4000,011	0,020,771	<i>\\</i> 0.00002	\$100,011	
	25	Unbundled Storage			\$0			\$0			\$0	
	26	System Total (w/o BTS)	9,142,019	\$0.39497	\$3,610,815	9,142,019	\$0.37916	\$3,466,311	8,279,067	\$0.42160	\$3,490,438	
	20	Backbone Transportation Service BTS	2,532	\$0.36798	\$340,120	2,532	\$0.53705	\$496,391	2,532	\$0.49936	\$461,557	
	28	SYSTEM TOTAL w/BTS	9,142,019	\$0.43217	\$3,950,935	9,142,019	\$0.33765 \$0.43346	\$3,962,703	8,279,067	\$0.47735	\$3,951,995	
	29		J, 172, 013		<i>40,000,000</i>	5,172,013		40,00 <u>2,</u> ,00	5,210,001	40.41100	<i>40,001,000</i>	
	29 30	EOR Revenues	208,941	\$0.09427	\$19.696	208,941	\$0.09675	\$20.215	154.067	\$0.11226	\$17.295	
	30 31	Total Throughput w/EOR Mth/yr	9,350,960	φU.U9427	\$19,090	9,350,960	90.09073	φ∠∪,∠ i θ	8,433,133	ψU. 11220	J11,295	

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⁹ Transportation rates are for Natural Gas Transportation Service from the Citygate to customer meters. All rates include Franchise Fees & Uncollectible charges. The average Transmission Level Service (TLS) rate is shown here. The unbundled Backbone Transportation Service (BTS) rate is for service from California border receipt points to Citygate.

		2022	to 2023 Char	nges	2023	to 2024 Char	iges	2022 to 2024 Changes		
				Rate			Rate			Rate
		Revenues	Rates	change	Revenues	Rates	change	Revenues	Rates	change
		\$000's	\$/therm	%	\$000's	\$/therm	%	\$000's	\$/therm	%
1	<u>CORE</u>									
2	Residential	(\$147,763)	(\$0.06298)	-5.8%	(\$41,031)	\$0.05661	5.5%	(\$188,794)	(\$0.00637)	-0.6%
3	Commercial & Industrial	(\$22,665)	(\$0.02283)	-3.6%	\$2,464	\$0.08048	13.2%	(\$20,201)	\$0.05765	9.1%
4	NGV - Post Sempra-Wide	(\$779)	(\$0.00436)	-1.2%	\$12,577	\$0.09973	28.5%	\$11,797	\$0.09537	26.9%
5										
5	Gas A/C	\$0	\$0.00015	0.1%	(\$52)	\$0.16054	59.4%	(\$52)	\$0.16069	59.5%
6	Gas Engine	\$1	\$0.00002	0.0%	(\$599)	\$0.00215	0.8%	(\$598)	\$0.00218	0.8%
7	Total Core	(\$171,206)	(\$0.04836)	-5.3%	(\$26,641)	\$0.06868	7.9%	(\$197,847)	\$0.02033	2.2%
8										
9	NONCORE COMMERCIAL & INDUSTRIA	L								
10	Distribution Level Service	(\$1,210)	(\$0.00132)	-0.7%	\$13,636	\$0.02038	11.3%	\$12,426	\$0.01906	10.5%
11	Transmission Level Service	\$3,917	\$0.00626	18.7%	\$15,032	\$0.01342	33.7%	\$18,949	\$0.01968	58.7%
12	Total Noncore C&I	\$2,708	\$0.00175	1.4%	\$28,667	\$0.00999	8.1%	\$31,375	\$0.01174	9.7%
13										
14	NONCORE ELECTRIC GENERATION									
15	Distribution Post Sempra Wide	\$352	\$0.00106	0.7%	\$9,180	\$0.02558	16.3%	\$9,532	\$0.02664	17.1%
16	Transmission Level Service	\$14,055	\$0.00626	19.1%	\$6,666	\$0.01334	34.2%	\$20,722	\$0.01960	59.9%
17	Total Electric Generation	\$14,407	\$0.00559	11.5%	\$15,846	\$0.01861	34.4%	\$30,253	\$0.02420	49.8%
18										
19	TOTAL RETAIL NONCORE	\$17,114	\$0.00415	5.5%	\$44,514	\$0.01903	23.7%	\$61,628	\$0.02318	30.5%
20										
21	Total Wholesale Incl SDG&E	\$9,589	\$0.00649	22.2%	\$6,253	\$0.01171	32.8%	\$15,842	\$0.01820	62.4%
22										
23	TOTAL NONCORE	\$26,703	\$0.00477	7.5%	\$50,767	\$0.01794	26.2%	\$77.470	\$0.02270	35.7%
24										
25	Unbundled Storage									
26	System Total (w/o BTS)	(\$144,503)	(\$0.01581)	-4.0%	\$24,126	\$0.04244	11.2%	(\$120,377)	\$0.02663	6.7%
27	Backbone Transportation Service BTS	\$156,271	\$0.16907	45.9%	(\$34,834)	(\$0.03769)	-7.0%	\$121,437	\$0.13138	35.7%
28	SYSTEM TOTAL w/BTS	\$11,768	\$0.00129	0.3%	(\$10,708)	\$0.04389	10.1%	\$1,060	\$0.04517	10.5%
29								1		
30	EOR Revenues	\$519	\$0.00248	2.6%	(\$2,919)	\$0.01551	16.0%	(\$2,401)	\$0.01799	19.1%
31	Total Throughput w/EOR Mth/yr									

1

		Pr	esent Rates		Ex	pected Rate	s	Pr	oposed Rate	s
		Mar-1-22	Proposed	Mar-1-22	Jan-1-23	Proposed	Jan-1-23	Jan-1-24	Proposed	Jan-1-24
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenue
		Mth	\$/therm	\$000's	Mth	\$/therm	\$000's	Mth	\$/therm	\$000's
1	CORE									
2	Residential	2,346,353	\$1.09046	\$2,558,598	2,346,353	\$1.02748	\$2,410,835	2,185,983	\$1.08349	\$2,368,48
3	Commercial & Industrial	992.706	\$0.63128	\$626,673	992.706	\$0.60845	\$604,009	880.320	\$0.68863	\$606,212
4	NGV - Post Sempra-Wide	178,769	\$0.35409	\$63,300	178,769	\$0.34973	\$62,521	167,083	\$0.44835	\$74,912
5	Gas A/C	416	\$0.27022	\$112	416	\$0.27037	\$113	140	\$0.43076	\$60
6	Gas Engine	22,302	\$0.25948	\$5,787	22,302	\$0.25950	\$5,787	19,830	\$0.26166	\$5,189
7	Total Core	3,540,545	\$0.91920	\$3,254,471	3,540,545	\$0.87084	\$3,083,265	3,253,356	\$0.93899	\$3,054,85
8		0,010,010	<i>Q0.01020</i>	¢0,201,111	0,010,010	<i>\\</i> 0.01001	40,000,200	0,200,000	<i>QQ</i>	\$0,00 1,0
9	NONCORE COMMERCIAL & INDUSTRIAL									
10	Distribution Level Service	919,735	\$0.18162	\$167,045	919,735	\$0.18031	\$165,835	894,285	\$0.20065	\$179,44
11	Transmission Level Service	626,080	\$0.03353	\$20,994	626,080	\$0.03979	\$24,911	750,680	\$0.05298	\$39,768
12	Total Noncore C&I	1,545,814	\$0.12164	\$188,039	1,545,814	\$0.12340	\$190.746	1,644,965	\$0.13326	\$219,20
13		1,010,011	Q 0.12101	\$100,000	1,010,011	40.12010	<i>\</i>	1,011,000	<i>Q</i> 0.10020	<i>\</i>
14	NONCORE ELECTRIC GENERATION									
15	Distribution Post Sempra Wide	331,442	\$0.15591	\$51,675	331,442	\$0.15697	\$52,026	335,280	\$0.18189	\$60,983
16	Transmission Level Service	2,246,336	\$0.03273	\$73,532	2,246,336	\$0.03899	\$87,587	1,800,969	\$0.05210	\$93.83
17	Total Electric Generation	2,577,778	\$0.04857	\$125,206	2,577,778	\$0.05416	\$139,613	2,136,249	\$0.07247	\$154,81
18		0		,	28%		* /	, , .		
19	TOTAL RETAIL NONCORE	4.123.593	\$0.07596	\$313.245	4.123.593	\$0.08011	\$330.359	3.781.214	\$0.09892	\$374,02
20		1,120,000	<i>\\</i>	<i>\$010,210</i>	1,120,000	<i>\\</i>	4000,000	0,101,211	\$0.00002	<i>\\</i> 0.1.1,02
21	Total Wholesale Incl SDG&E	1.477.881	\$0.02916	\$43.099	1.477.881	\$0.03565	\$52.687	1,244,496	\$0.04731	\$58.878
22		.,,		† ,	.,,		4 0-,000	.,,		
23	TOTAL NONCORE	5,601,473	\$0.06362	\$356,344	5,601,473	\$0.06838	\$383,047	5,025,711	\$0.08614	\$432,90
24		0,001,110	\$0.00002	4000,011	0,001,110	40.00000	4000,011	0,020,111	\$0.00011	<i>\</i>
25	Unbundled Storage			\$0			\$0			\$0
26	System Total (w/o BTS)	9,142,019	\$0.39497	\$3,610,815	9,142,019	\$0.37916	\$3,466,311	8,279,067	\$0.42127	\$3,487,7
20	Backbone Transportation Service BTS	2,532	\$0.39497 \$0.36798	\$340,120	2,532	\$0.537910 \$0.53705	\$496,391	2,532	\$0.50099	\$463,06
28	SYSTEM TOTAL w/BTS	9,142,019	\$0.30798 \$0.43217	\$3,950,935	9,142,019	\$0.33703 \$0.43346	\$3,962,703	8,279,067	\$0.30099 \$0.47721	\$3,950,8
20		5,172,013	ψ 0. 1 5217	40,000,000	3,172,013	ψ 0. +55+0	ψ 3,302,703	5,213,007	φ υ. 1 1121	ψ0,000,0
29 30	EOR Revenues	208.941	\$0.09427	\$19.696	208,941	\$0.09675	\$20,215	154,067	\$0.11172	\$17,212
30	Total Throughput w/EOR Mth/yr	9.350.960	ψ0.03 4 27	φ19,090	9,350,960	φ0.09075	φ20,213	8.433.133	φυ.11172	21 2, 11 9

		2022	to 2023 Char	nges	2023	to 2024 Char	nges	2022 to 2024 Changes			
				Rate			Rate			Rate	
		Revenues	Rates	change	Revenues	Rates	change	Revenues	Rates	change	
		\$000's	\$/therm	%	\$000's	\$/therm	%	\$000's	\$/therm	%	
1	CORE										
2	Residential	(\$147,763)	(\$0.06298)	-5.8%	(\$42,355)	\$0.05600	5.5%	(\$190,118)	(\$0.00697)	-0.6%	
3	Commercial & Industrial	(\$22,665)	(\$0.02283)	-3.6%	\$2,204	\$0.08018	13.2%	(\$20,461)	\$0.05735	9.1%	
4	NGV - Post Sempra-Wide	(\$779)	(\$0.00436)	-1.2%	\$12,391	\$0.09862	28.2%	\$11,611	\$0.09426	26.6%	
5											
5	Gas A/C	\$0	\$0.00015	0.1%	(\$52)	\$0.16039	59.3%	(\$52)	\$0.16054	59.4%	
6	Gas Engine	\$1	\$0.00002	0.0%	(\$599)	\$0.00215	0.8%	(\$598)	\$0.00218	0.8%	
7	Total Core	(\$171,206)	(\$0.04836)	-5.3%	(\$28,411)	\$0.06814	7.8%	(\$199,618)	\$0.01978	2.2%	
8											
9	NONCORE COMMERCIAL & INDUSTRIA	<u>.L</u>									
10	Distribution Level Service	(\$1,210)	(\$0.00132)	-0.7%	\$13,605	\$0.02034	11.3%	\$12,395	\$0.01903	10.5%	
11	Transmission Level Service	\$3,917	\$0.00626	18.7%	\$14,856	\$0.01319	33.1%	\$18,774	\$0.01944	58.0%	
12	Total Noncore C&I	\$2,708	\$0.00175	1.4%	\$28,461	\$0.00986	8.0%	\$31,169	\$0.01162	9.5%	
13 14	NONCORE ELECTRIC GENERATION										
15	Distribution Post Sempra Wide	\$352	\$0.00106	0.7%	\$8,957	\$0.02492	15.9%	\$9,309	\$0.02598	16.7%	
16	Transmission Level Service	\$14.055	\$0.00626	19.1%	\$6,246	\$0.01311	33.6%	\$20.301	\$0.01937	59.2%	
17	Total Electric Generation	\$14,407	\$0.00559	11.5%	\$15,203	\$0.01831	33.8%	\$29,610	\$0.02390	49.2%	
18		φ14,401	<i>\\</i> 0.00000	11.070	<i>Q10,200</i>	Q0.01001	00.070	φ20,010	<i>\\</i> 0.02000	40.270	
19	TOTAL RETAIL NONCORE	\$17,114	\$0.00415	5.5%	\$43,664	\$0.01880	23.5%	\$60,779	\$0.02295	30.2%	
20		•,		,.	* ,			+			
21	Total Wholesale Incl SDG&E	\$9,589	\$0.00649	22.2%	\$6,191	\$0.01166	32.7%	\$15,780	\$0.01815	62.2%	
22					<i></i>						
23	TOTAL NONCORE	\$26,703	\$0.00477	7.5%	\$49,856	\$0.01775	26.0%	\$76,559	\$0.02252	35.4%	
24		,						, .,			
25	Unbundled Storage										
26	System Total (w/o BTS)	(\$144,503)	(\$0.01581)	-4.0%	\$21,444	\$0.04211	11.1%	(\$123,059)	\$0.02630	6.7%	
27	Backbone Transportation Service BTS	\$156,271	\$0.16907	45.9%	(\$33,329)	(\$0.03606)	-6.7%	\$122,942	\$0.13301	36.1%	
28	SYSTEM TOTAL w/BTS	\$11,768	\$0.00129	0.3%	(\$11,885)	\$0.04375	10.1%	(\$117)	\$0.04503	10.4%	
29											
30	EOR Revenues	\$519	\$0.00248	2.6%	(\$3,003)	\$0.01497	15.5%	(\$2,484)	\$0.01745	18.5%	
	Total Throughput w/EOR Mth/yr	1			1 /			1			

Table 1 (bottom section) shows that, relative to the present 2022 rates, SoCalGas's core customers' rates will generally decrease¹⁰ and noncore customers' rates will generally increase in 2023.¹¹ With higher updated transmission and storage costs but the same revenue requirement to be recovered in rates, the 2023 rates reflect lower revenue recovered from customer-related and distribution functions. Relative to noncore customers, SoCalGas' core customers pay a significantly higher share of customer-related and distribution costs but a lower share of transmission and storage costs. For core customers, the effects of lower customer-related and distribution costs more than offset the effects of higher transmission and storage costs. Hence,

¹⁰ Except for Gas AC and Gas Engine customers.

¹¹ Except for noncore commercial and industrial customers with distribution level service.

the decrease in SoCalGas's 2023 core rates. For noncore customers, the increase in transmission
 and storage costs more than offset the decrease in customer-related and distribution costs.
 Therefore, noncore rates increase in 2023.

Table 1 also shows that, relative to 2023 rates, the proposed 2024 rates are higher for all customer classes, except for BTS tariff. These rate increases are primarily due to the lower gas demand forecasts for customer classes in this CAP relative to the last TCAP. Proposed local transmission and storage embedded costs are higher in 2024 compared to 2023. These higher embedded costs in 2024 partially mitigate core rate increases and add to noncore rate increases in 2024.

The 2024 rate changes from the present 2022 rates reflect the combined rate changes from 2022 to 2023 and from 2023 to 2024. Table 1 shows that the proposals in this proceeding result in rate increases (relative to 2022 rates) for all of SoCalGas's customer classes except residential class. For SoCalGas's residential class, the rate reduction in 2023 (relative to 2022) more than offsets the rate increase in 2024 (relative to 2023). For SoCalGas's other core customer classes, the rate reduction in 2023 is more than offset by the rate increase in 2024. For noncore customers, rate increases between 2022 and 2024 is the result of rates increases both in 2023 (relative to 2022) and in 2024 (relative to 2023).

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Table 2 below shows SDG&E's present class-average transportation rates (as of March 1,2022), illustrative 2023 rates, and the 2024 illustrative rates proposed in this CAP.

Table 2 – SDG&E Natural Gas Transportation Rates $(2022-2024)^{12}$

			Present Ra	ites		Expected R	ates		Proposed Ra	ates
		Mar-1-22	Average	Mar-1-22	Jan-1-23	Average	Jan-1-23	Jan-1-24	Average	Jan-1-24
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenues
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's
1	CORE									
2	Residential	313,234	\$1.47125	\$460,846	313,234	\$1.44510	\$452,655	270,604	\$1.69468	\$458,588
3	Commercial & Industrial	194,777	\$0.61067	\$118,944	194,777	\$0.61090	\$118,990	178,913	\$0.63368	\$113,373
4	NGV Post Sempra-Wide	24,129	\$0.35496	\$8,565	24,129	\$0.35058	\$8,459	23,179	\$0.40248	\$9,329
5										
6	Total CORE	532,140	\$1.10564	\$588,355	532,140	\$1.09013	\$580,104	472,696	\$1.22973	\$581,290
7										
9	NONCORE COMMERCIAL & INDUCTRIAL									
9	Distribution Level Service	29,376	\$0.16284	\$4,783	29,376	\$0.17509	\$5,143	35,337	\$0.19954	\$7,051
0	Transmission Level Service	17,569	\$0.03423	\$601	17,569	\$0.04049	\$711	13,965	\$0.05627	\$786
1	Total Noncore C&I	46,945	\$0.11471	\$5,385	46,945	\$0.12472	\$5,855	49,302	\$0.15896	\$7,837
2										
3	NONCORE ELECTRIC GENERATION									
4	Distribution Level post SW	68,867	\$0.17756	\$12,228	68,867	\$0.17808	\$12,264	71,656	\$0.20808	\$14,910
15	Transmission Level Service	461,363	\$0.02990	\$13,795	461,363	\$0.03616	\$16,681	225,945	\$0.04952	\$11,188
16	Total Electric Generation	530,230	\$0.04908	\$26,023	530,230	\$0.05459	\$28,945	297,600	\$0.08769	\$26,098
7										
18	TOTAL NONCORE	577,175	\$0.05442	\$31,408	577,175	\$0.06029	\$34,800	346,902	\$0.09782	\$33,935
9									-	
0	SYSTEM TOTAL	1,109,315	\$0.55869	\$619,763	1,109,315	\$0.55431	\$614,904	819,598	\$0.75064	\$615,22

		2022	2 to 2023 Chan	ges	2023	3 to 2024 Char	nges	2022 to 2024 Changes			
				Rate			Rate			Rate	
		Revenues	Rates	change	Revenues	Rates	change	Revenues	Rates	change	
		\$000's	\$/therm	%	\$000's	\$/therm	%	\$000's	\$/therm	%	
1	CORE										
2	Residential	(\$8,191)	(\$0.02615)	-1.8%	\$5,933	\$0.24958	17.3%	(\$2,258)	\$0.22343	15.2%	
3	Commercial & Industrial	\$46	\$0.00024	0.0%	(\$5,617)	\$0.02277	3.7%	(\$5,571)	\$0.02301	3.8%	
4	NGV Post Sempra-Wide	(\$106)	(\$0.00438)	-1.2%	\$870	\$0.05190	14.8%	\$764	\$0.04752	13.4%	
5											
6	Total CORE	(\$8,251)	(\$0.01551)	-1.4%	\$1,186	\$0.13960	12.8%	(\$7,065)	\$0.12410	11.2%	
7											
-0	NONCORE COMMERCIAL & INDUCTRIAL										
9	Distribution Level Service	\$360	\$0.01225	7.5%	\$1,908	\$0.02445	14.0%	\$2,268	\$0.03670	22.5%	
10	Transmission Level Service	\$110	\$0.00626	18.3%	\$75	\$0.01579	39.0%	\$184	\$0.02204	64.4%	
11	Total Noncore C&I	\$470	\$0.01001	8.7%	\$1,982	\$0.03424	27.5%	\$2,452	\$0.04425	38.6%	
12											
13	NONCORE ELECTRIC GENERATION										
14	Distribution Level Service										
15	Transmission Level Service	\$2,887	\$0.00626	20.9%	(\$5,494)	\$0.01336	36.9%	(\$2,607)	\$0.01962	65.6%	
16	Total Electric Generation	\$2,922	\$0.00551	11.2%	(\$2,847)	\$0.03311	60.6%	\$75	\$0.03862	78.7%	
17											
18	TOTAL NONCORE	\$3,392	\$0.00588	10.8%	(\$865)	\$0.03753	62.2%	\$2,527	\$0.04341	79.8%	
19											
20	SYSTEM TOTAL	(\$4,859)	(\$0.00438)	-0.8%	\$322	\$0.19633	35.4%	(\$4,537)	\$0.19195	34.4%	

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¹² Transportation rates are for Natural Gas Transportation Service from the Citygate to customer meters. All rates include Franchise Fees & Uncollectible charges. The average Transmission Level Service (TLS) rate is shown here.

		Present Rate	s	Expected	Rates			Rates	
	Mar-1-22	Average	Mar-1-22	Jan-1-23	Average	Jan-1-23	Jan-1-24	Average	Jan-1-24
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenue
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's
CORE									
Residential	313,234	\$1.47125	\$460,846	313,234	\$1.44510	\$452,655	270,604	\$1.70231	\$460,652
Commercial & Industrial	194,777	\$0.61067	\$118,944	194,777	\$0.61090	\$118,990	178,913	\$0.64276	\$114,998
NGV Post Sempra-Wide	24,129	\$0.35496	\$8,565	24,129	\$0.35058	\$8,459	23,179	\$0.40362	\$9,355
Total CORE	532,140	\$1.10564	\$588,355	532,140	\$1.09013	\$580,104	472,696	\$1.23759	\$585,005
NONCORE COMMERCIAL & INDUSTRIAL									
Distribution Level Service	29,376	\$0.16284	\$4,783	29,376	\$0.17509	\$5,143	35,337	\$0.20335	\$7,186
Transmission Level Service	17,569	\$0.03423	\$601	17,569	\$0.04049	\$711	13,965	\$0.05651	\$789
Total Noncore C&I	46,945	\$0.11471	\$5,385	46,945	\$0.12472	\$5,855	49,302	\$0.16176	\$7,975
NONCORE ELECTRIC GENERATION									
Distribution Level post SW	68,867	\$0.17756	\$12,228	68,867	\$0.17808	\$12,264	71,656	\$0.20878	\$14,960
Transmission Level Service	461,363	\$0.02990	\$13,795	461,363	\$0.03616	\$16,681	225,945	\$0.04975	\$11,241
Total Electric Generation	530,230	\$0.04908	\$26,023	530,230	\$0.05459	\$28,945	297,600	\$0.08804	\$26,201
TOTAL NONCORE	577,175	\$0.05442	\$31,408	577,175	\$0.06029	\$34,800	346,902	\$0.09852	\$34,176
SYSTEM TOTAL	1,109,315	\$0.55869	\$619,763	1.109.315	\$0.55431	\$614.904	819.598	\$0.75547	\$619,18

	2022	2 to 2023 Chan	ges	2023	to 2024 Char	iges	2022	2 to 2024 Char	iges
			Rate			Rate			Rate
	Revenues	Rates	change	Revenues	Rates	change	Revenues	Rates	change
	\$000's	\$/therm	%	\$000's	\$/therm	%	\$000's	\$/therm	%
1 <u>CORE</u>									
2 Residential	(\$8,191)	(\$0.02615)	-1.8%	\$7,997	\$0.25721	17.8%	(\$195)	\$0.23106	15.7%
3 Commercial & Industrial	\$46	\$0.00024	0.0%	(\$3,992)	\$0.03186	5.2%	(\$3,946)	\$0.03209	5.3%
4 NGV Post Sempra-Wide	(\$106)	(\$0.00438)	-1.2%	\$896	\$0.05304	15.1%	\$791	\$0.04866	13.7%
5									
6 Total CORE	(\$8,251)	(\$0.01551)	-1.4%	\$4,901	\$0.14746	13.5%	(\$3,350)	\$0.13195	11.9%
7									
8 NONCORE COMMERCIAL & INDUSTRIAL									
9 Distribution Level Service	\$360	\$0.01225	7.5%	\$2,042	\$0.02826	16.1%	\$2,402	\$0.04051	24.9%
10 Transmission Level Service	\$110	\$0.00626	18.3%	\$78	\$0.01602	39.6%	\$188	\$0.02228	65.1%
11 Total Noncore C&I	\$470	\$0.01001	8.7%	\$2,120	\$0.03704	29.7%	\$2,590	\$0.04705	41.0%
12									
13 NONCORE ELECTRIC GENERATION									
14 Distribution Level Service									
15 Transmission Level Service	\$2,887	\$0.00626	20.9%	(\$5,441)	\$0.01359	37.6%	(\$2,554)	\$0.01985	66.4%
16 Total Electric Generation	\$2,922	\$0.00551	11.2%	(\$2,744)	\$0.03345	61.3%	\$178	\$0.03896	79.4%
17									
18 TOTAL NONCORE	\$3,392	\$0.00588	10.8%	(\$624)	\$0.03822	63.4%	\$2,768	\$0.04410	81.0%
19									
20 SYSTEM TOTAL	(\$4,859)	(\$0.00438)	-0.8%	\$4,277	\$0.20116	36.3%	(\$582)	\$0.19678	35.2%

Table 2 (bottom section) above shows that, relative to the present 2022 rates, SDG&E's core customers' rates will generally decrease,¹³ and noncore customers' rates will increase in 2023. With higher updated transmission costs but the same revenue requirement to recover in rates, the 2023 rates reflect lower revenue recovered from customer-related and distribution

Except for core commercial and industrial customers.

functions. Relative to noncore customers, SDG&E's core customers pay a significantly higher
share of customer-related and distribution costs but a lower share of transmission costs. For core
customers, the effects of lower customer-related and distribution costs more than offset the
effects of higher transmission costs. Hence, the decrease in 2023 SDG&E residential and NGV
rates. For noncore customers, the increase in transmission costs more than offset the decrease in
customer-related and distribution costs. Therefore, noncore rates increase in 2023.

Table 2 also shows that, relative to 2023 rates, SDG&E's proposed 2024 rates are higher for all customer classes. These rate increases are primarily due the lower gas demand forecasts for customer classes in this CAP relative to the last TCAP.

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SDG&E's 2024 rate changes from the present 2022 rates reflect the combined rate changes from 2022 to 2023 and from 2023 to 2024. Table 2 shows that the proposals in this proceeding result in rate increases (relative to 2022 rates) for all of SDG&E's customer classes. For SDG&E's residential and NGV customer classes, the rate reduction in 2023 is more than offset by the rate increase in 2024. For noncore customers, rate increases between 2022 and 2024 reflect rates increases both in 2023 (relative to 2022) and 2024 (relative to 2023).

Appendix A and B contain, respectively, complete set of rate tables (showing current and 2024 rates) for SoCalGas and SDG&E incorporating all the proposals in this CAP corresponding to Tables 1 and 2.

As explained in Frank Seres' testimony (Chapter 8), Applicants are proposing in this
proceeding to escalate transmission and storage costs to account for attrition year base margin
increases in those years. These attrition years are 2025, 2026 and 2027. Table 3 and Table 4
show the resulting 2025, 2026 and 2027 illustrative class-average transportation rates for

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1 SoCalGas and SDG&E, respectively. These 2025-2027 proposed class-average rates are derived

2 using the present base margins and present regulatory account balances.

Table 3 – SoCalGas Natural Gas Transportation Rates (2025-2027)¹⁴

		Pro	posed Rates		Pro	oosed Rates		Pro	posed Rates	
		Jan-1-25	Proposed	Jan-1-25	Jan-1-26	Proposed	Jan-1-26	Jan-1-27	Proposed	Jan-1-27
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenues
		Mth	\$/therm	\$000's	Mth	\$/therm	\$000's	Mth	\$/therm	\$000's
		D	Е	F	D	Е	F	D	Е	F
1	CORE									
2	Residential	2,185,983	\$1.08273	\$2,366,836	2,185,983	\$1.07914	\$2,358,975	2,185,983	\$1.07486	\$2,349,626
3	Commercial & Industrial	880,320	\$0.68830	\$605,922	880,320	\$0.68674	\$604,547	880,320	\$0.68488	\$602,912
7	NGV - Post Sempra-Wide	167,083	\$0.44835	\$74,911	167,083	\$0.44839	\$74,919	167,083	\$0.44845	\$74,929
8										
9	Gas A/C	140	\$0.43061	\$60	140	\$0.43004	\$60	140	\$0.42937	\$60
10	Gas Engine	19,830	\$0.26166	\$5,189	19,830	\$0.26166	\$5,189	19,830	\$0.26166	\$5,189
11	Total Core	3,253,356	\$0.93839	\$3,052,919	3,253,356	\$0.93555	\$3,043,690	3,253,356	\$0.93218	\$3,032,717
12										
13	NONCORE COMMERCIAL & INDUSTRI	AL								
14	Distribution Level Service	894,285	\$0.20068	\$179,467	894,285	\$0.20082	\$179,593	894,285	\$0.20099	\$179,744
15	Transmission Level Service	750,680	\$0.05311	\$39,872	750,680	\$0.05381	\$40,394	750,680	\$0.05464	\$41,017
16	Total Noncore C&I	1,6//,965	\$0 1333/	\$210,330	1,6//,965	\$0 13373	\$210,088	1,6//,965	\$0.13/20	\$220,761
17										
18	NONCORE ELECTRIC GENERATION									
23	Transmission Level Service	1,800,969	\$0.05224	\$94,083	1,800,969	\$0.05294	\$95,337	1,800,969	\$0.05377	\$96,832
24	Total Electric Generation	2,136,249	\$0.07260	\$155,083	2,136,249	\$0.07322	\$156,420	2,136,249	\$0.07397	\$158,012
25										
26	TOTAL RETAIL NONCORE	3,781,214	\$0.09902	\$374,422	3,781,214	\$0.09955	\$376,407	3,781,214	\$0.10017	\$378,774
35	Total Wholesale Incl SDG&E	1,244,496	\$0.04741	\$59,007	1,244,496	\$0.04814	\$59,908	1,244,496	\$0.04901	\$60,991
36										
37	TOTAL NONCORE	5.025.711	\$0.08624	\$433.429	5.025.711	\$0.08682	\$436.315	5.025.711	\$0.08750	\$439,764
38					- , ,		* /			, .
39	Unbundled Storage			\$0			\$0			\$0
40	System Total (w/o BTS)	8,279,067	\$0.42110	\$3,486,348	8,279,067	\$0.42034	\$3,480,005	8,279,067	\$0.41943	\$3,472,481
41	Backbone Transportation Service BTS	2.532	\$0.50268	\$464,621	2.532	\$0.51054	\$471.885	2,532	\$0.51988	\$480,524
42	SYSTEM TOTAL w/BTS	8,279,067	\$0.47722	\$3,950,969	8,279,067	\$0.47734	\$3,951,890	8,279,067	\$0.47747	\$3,953,005
43				,,						
44	EOR Revenues	154,067	\$0.11179	\$17,223	154,067	\$0.11216	\$17,281	154,067	\$0.11261	\$17,349
45	Total Throughput w/EOR Mth/yr	8,433,133	<i>Q</i> 0.11170	ψ17,220	8,433,133	Q0.11210	ψι,201	8,433,133	\$0.11201	ψ17,0-70

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¹⁴ Transportation rates are for Natural Gas Transportation Service from the Citygate to customer meters. All rates include Franchise Fees & Uncollectible charges. The average Transmission Level Service (TLS) rate is shown here. The unbundled Backbone Transportation Service (BTS) rate is for service from California border receipt points to Citygate.

		Presen	t Rates		Propo	sed Rates		Proposed	Rates	
		TCAP 1/1/2025	Proposed	Jan-1-25	TCAP 1/1/2026		Jan-1-26	TCAP 1/1/2027	Proposed	Jan-1-27
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenues
		Mth	\$/therm	\$000's	Mth	\$/therm	\$000's	Mth	\$/therm	\$000's
		D	E	F	D	E	F	D	E	F
1	CORE									
2	Residential	2,185,983	\$1.08326	\$2,367,984	2,185,983	\$1.07967	\$2,360,143	2,185,983	\$1.07541	\$2,350,820
3	Commercial & Industrial	880,320	\$0.68854	\$606,132	880,320	\$0.68698	\$604,760	880,320	\$0.68513	\$603,130
4	NGV - Post Sempra-Wide	167,083	\$0.44942	\$75,090	167,083	\$0.44947	\$75,098	167,083	\$0.44953	\$75,108
5										
6	Gas A/C	140.4097	\$0.43073	\$60	140.4097	\$0.43016	\$60	140.4097	\$0.42950	\$60
7	Gas Engine	19,830	\$0.26166	\$5,189	19,830	\$0.26166	\$5,189	19,830	\$0.26166	\$5,189
8	Total Core	3,253,356	\$0.93886	\$3,054,456	3,253,356	\$0.93603	\$3,045,250	3,253,356	\$0.93267	\$3,034,308
9										
10	NONCORE COMMERCIAL & INDUSTRIAL									
11	Distribution Level Service	894,285	\$0.20067	\$179,461	894,285	\$0.20082	\$179,586	894,285	\$0.20098	\$179,737
12	Transmission Level Service (2)	750,680	\$0.05330	\$40,014	750,680	\$0.05400	\$40,536	750,680	\$0.05483	\$41,158
13	Total Noncore C&I	1,644,965	\$0.13342	\$219,475	1,644,965	\$0.13382	\$220,123	1,644,965	\$0.13429	\$220,895
14										
15	NONCORE ELECTRIC GENERATION									
16	Distribution Post Sempra Wide	335,280	\$0.18256	\$61,209	335,280	\$0.18281	\$61,291	335,280	\$0.18310	\$61,389
17	Transmission Level Service (2)	1,800,969	\$0.05243	\$94,425	1,800,969	\$0.05313	\$95,677	1,800,969	\$0.05395	\$97,170
18	Total Electric Generation	2,136,249	\$0.07285	\$155,633	2,136,249	\$0.07348	\$156,969	2,136,249	\$0.07422	\$158,560
19								1		
20	TOTAL RETAIL NONCORE	3,781,214	\$0.09920	\$375,108	3,781,214	\$0.09973	\$377,091	3,781,214	\$0.10035	\$379,455
21										
22	Total Wholesale Incl SDG&E	1,244,496	\$0.04745	\$59,053	1,244,496	\$0.04817	\$59,953	1,244,496	\$0.04904	\$61,034
23										
24	TOTAL NONCORE	5.025.711	\$0.08639	\$434.161	5.025.711	\$0.08696	\$437.044	5.025.711	\$0.08765	\$440,489
25					-,,					,
26	Unbundled Storage (4)									
27	System Total (w/o BTS)	8,279,067	\$0.42138	\$3,488,617	8,279,067	\$0.42061	\$3,482,295	8,279,067	\$0.41971	\$3,474,797
28	Backbone Transportation Service BTS (3)		\$0.50156	\$463,589	2,532	\$0.50940	\$470,835	2,532	\$0.51872	\$479,451
29	SYSTEM TOTAL w/BTS	8,279,067	\$0.47737	\$3,952,206	8,279,067	\$0.47748	\$3,953,130	8,279,067	\$0.47762	\$3,954,249
30							· · · · · · · · · · · · · · · · · · ·			
31	EOR Revenues	154,067	\$0.11229	\$17,300	154,067	\$0.11266	\$17,358	154,067	\$0.11311	\$17,426
32	Total Throughput w/EOR Mth/yr	8,433,133			8,433,133			8.433.133		

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Table 3 shows that, holding base margin constant, SoCalGas's core rates will decrease slightly, and the noncore rates will increase slightly due to the proposed escalation of transmission and storage embedded costs to account for attrition year base margin increases in 2025-2027. With higher updated transmission and storage costs but the same revenue requirement to be recovered 6 in rates, the 2025, 2026 and 2027 rates (relative to respective prior year rates) reflect lower revenue recovered from customer-related and distribution functions. As stated earlier, relative to noncore customers, SoCalGas's core customers pay a significantly higher share of customerrelated and distribution costs but a lower share of transmission and storage costs. For core 10 customers, the effects of lower customer-related and distribution costs more than offset the effects of higher transmission and storage costs. Hence, the decrease in core rates in these years. For noncore customers, the increase in transmission and storage costs more than offset the

decrease in customer-related and distribution costs. Therefore, noncore rates increase in these
 years.

Table 4 shows the 2025, 2026 and 2027 illustrative class-average transportation rates for SDG&E resulting from escalation of transmission and storage costs for attrition year base margin increases.

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Table 4 – SDG&E Natural Gas Transportation Rates (2025-2027)¹⁵

		At Proposed	Rates		At Proposed	Rates		At Proposed	Rates
	Jan-1-25	Average	Jan-1-25	Jan-1-26	Average	Jan-1-26	Jan-1-27	Average	Jan-1-27
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenues
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's
	D	Е	F	D	Е	F	D	Е	F
CORE									
Residential	270,604	\$1.69420	\$458,457	270,604	\$1.69201	\$457,863	270,604	\$1.68936	\$457,148
Commercial & Industrial	178,913	\$0.63374	\$113,385	178,913	\$0.63421	\$113,469	178,913	\$0.63477	\$113,568
NGV Post Sempra-Wide	23,179	\$0.40248	\$9,329	23,179	\$0.40252	\$9,330	23,179	\$0.40259	\$9,331
Total CORE	472,696	\$1.22948	\$581,170	472,696	\$1.22840	\$580,662	472,696	\$1.22711	\$580,048
NONCORE COMMERCIAL & INDUCTR									
Distribution Level Service	35,337	\$0.19974	\$7,058	35,337	\$0.20066	\$7,091	35,337	\$0.20175	\$7,129
Transmission Level Service	13,965	\$0.05641	\$788	13,965	\$0.05711	\$798	13,965	\$0.05794	\$809
Total Noncore C&I	49,302	\$0.15914	\$7,846	49,302	\$0.16000	\$7,888	49,302	\$0.16101	\$7,938
NONCORE ELECTRIC GENERATION									
Distribution Level post SW	71,656	\$0.20813	\$14,913	71,656	\$0.20834	\$14,928	71,656	\$0.20859	\$14,946
Transmission Level Service	225,945	\$0.04965	\$11,219	225,945	\$0.05035	\$11,376	225,945	\$0.05118	\$11,564
Total Electric Generation	297,600	\$0.08781	\$26,132	297,600	\$0.08839	\$26,305	297,600	\$0.08908	\$26,510
TOTAL NONCORE	346,902	\$0.09795	\$33,979	346,902	\$0.09857	\$34,193	346,902	\$0.09930	\$34,449
SYSTEM TOTAL	819,598	\$0.75055	\$615,149	819,598	\$0.75019	\$614,855	819,598	\$0.74975	\$614,497

¹⁵ Transportation rates are for Natural Gas Transportation Service from the Citygate to customer meters. All rates include Franchise Fees & Uncollectible charges. The average Transmission Level Service (TLS) rate is shown here.

		Presen	t Rates		Expect	ed Rates		Proposed	Rates	
		TCAP 1/1/2025	Proposed	Jan-1-25	TCAP 1/1/2026	Proposed	Jan-1-26	TCAP 1/1/2027	Proposed	Jan-1-27
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Volumes	Rate	Revenues
		Mth	\$/therm	\$000's	Mth	\$/therm	\$000's	Mth	\$/therm	\$000's
		D	E	F	D	E	F	D	E	F
1	CORE									
2	Residential	270,604	\$1.70176	\$460,502	270,604	\$1.69958	\$459,912	270,604	\$1.69696	\$459,203
3	Commercial & Industrial	178,913	\$0.64277	\$115,000	178,913	\$0.64325	\$115,086	178,913	\$0.64382	\$115,188
4	NGV - Post Sempra-Wide	23,179	\$0.40357	\$9,354	23,179	\$0.40362	\$9,355	23,179	\$0.40369	\$9,357
5										
6	Total Core	472,696	\$1.23728	\$584,856	472,696	\$1.23622	\$584,354	472,696	\$1.23493	\$583,748
7										
8	NONCORE COMMERCIAL & INDUSTRIAL									
9	Distribution Level Service	35,337	\$0.20347	\$7,190	35,337	\$0.20440	\$7,223	35,337	\$0.20549	\$7,261
10	Transmission Level Service (2)	13,965	\$0.05660	\$790	13,965	\$0.05730	\$800	13,965	\$0.05813	\$812
11	Total Noncore C&I	49,302	\$0.16187	\$7,981	49,302	\$0.16273	\$8,023	49,302	\$0.16375	\$8,073
12										
13	NONCORE ELECTRIC GENERATION									
14	Distribution Post Sempra Wide	71,656	\$0.20878	\$14,960	71,656	\$0.20899	\$14,975	71,656	\$0.20924	\$14,993
15	Transmission Level Service (2)	225,945	\$0.04984	\$11,262	225,945	\$0.05054	\$11,419	225,945	\$0.05137	\$11,606
16	Total Electric Generation	297,600	\$0.08811	\$26,222	297,600	\$0.08869	\$26,395	297,600	\$0.08938	\$26,600
17										
18	TOTAL NONCORE	346,902	\$0.09859	\$34,203	346,902	\$0.09921	\$34,418	346,902	\$0.09995	\$34,673
19					1			Ì		
20	SYSTEM TOTAL	819,598	\$0.75532	\$619,059	819,598	\$0.75497	\$618,771	819,598	\$0.75454	\$618,421

2 Table 4 shows that, holding base margin constant, SDG&E's core rates will decrease slightly, 3 and the noncore rates will increase slightly due to the proposed escalation of transmission 4 embedded costs to account for attrition year base margin increases in 2025-2027. With higher 5 updated transmission costs but the same revenue requirement to be recovered in rates, the 2025, 6 2026 and 2027 rates (relative to respective prior year rates) reflect lower revenue recovered from 7 customer-related and distribution functions. As stated earlier, relative to noncore customers, 8 SDG&E's core customers pay a significantly higher share of customer-related and distribution 9 costs but a lower share of transmission and storage costs. For core customers, the effects of 10 lower customer-related and distribution costs more than offset the effects of higher transmission 11 and storage costs. Hence, the decrease in core rates in these years. For noncore customers, the 12 increase in transmission and storage costs more than offset the decrease in customer-related and 13 distribution costs. Therefore, noncore rates increase in these years.

14 15 II.

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CORE RATE DESIGN

In this section, Applicants describe their respective individual core rate updates based on
their respective CAP proposals. For residential customers, the rate updates include SoCalGas's

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1 proposed phase-in customer charge increases and the corresponding compensating decrease in 2 volumetric rates. SDG&E proposes to retain the \$4 per month minimum bill for its residential 3 customers.

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Residential Rates A.

Residential rates apply to three categories of residential customers: single-family, multifamily, and small master-metered dwellings. SoCalGas's current residential transportation rate structure consists of a fixed customer charge of about \$5 per customer per month for customers who are not in the California Alternative Rates for Energy (CARE) program;¹⁶ and a two-tiered volumetric rate, baseline and non-baseline, with the baseline rate lower than the non-baseline rate. The baseline rate and the non-baseline rates are related to each other through the concept of the Composite rate, where a Composite rate is defined by adding the gas price and the customer charge revenues per unit of baseline volume to the baseline rate. The non-baseline rate is derived as 115% of the Composite rate less the gas price. 14 For SDG&E, the current residential rate structure consists of a two-tiered volumetric rate,

baseline and non-baseline, with an approximately \$4 per customer per month¹⁷ minimum bill.¹⁸ 15

¹⁶ The Commission adopted the current \$5 per month fixed customer charge for non-CARE customers in the 1993 BCAP (see D.94-12-052). In SoCalGas's tariff, the fixed customer charge is implemented as per-meter per-day charge (currently at \$0.16438). Hence, the monthly fixed customer charge varies slightly around \$5 from month to month depending on the number of days in a month. The current fixed customer charge for CARE customers is around \$4 per month, reflecting a 20% discount.

¹⁷ The Commission adopted the \$4 per month minimum bill in the last TCAP (see D.20-20-045) for non-CARE customers. In SDG&E's tariff, the minimum bill charge is implemented as per-meter perday charge (currently at \$0.13151). Hence, the monthly minimum bill varies slightly around \$4 from month to month depending on the number of days in a month.

¹⁸ For SDG&E, a non-CARE residential customer pays, at a minimum, a \$4 per-month gas bill. If the customer's calculated gas bill based on the volume of gas used, comprising cost of gas, gas transportation cost and public purpose program surcharge (PPPS), exceeds \$4 per month, then the \$4 minimum bill no longer applies, and the customer pays the calculated bill. Under minimum bill, a customer pays either the \$4 or the calculated bill whichever is higher. For CARE customers, the minimum bill is around \$3.20 per month.

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1. SoCalGas Proposes to Phase-in an Increased Residential Fixed Customer Charge and Establish a Two-Tier Structure

SoCalGas proposes to implement residential non-CARE fixed customer charge increases in a phased-in approach over the CAP horizon: retain the \$5 customer charge in 2024; increase it from \$5 to \$10 in 2025; from \$10 to \$15 in 2026; and from \$15 to \$20 in 2027.¹⁹

In the 2020 TCAP decision, the Commission did not adopt SoCalGas's recommendation to increase its non-CARE fixed customer charge to \$10 per month.²⁰ In doing so, however, the Commission found that SoCalGas's showing complied with the guidelines adopted in the D.17-09-035.²¹ In D.17-09-035, the Commission made several key determinations which provided prescriptive guidance on how electric utilities should calculate and present fixed customer charge proposals. Notably, that guidance applies to establishing *new* fixed customer charges for *electric* utilities, while SoCalGas, a gas-only utility, already has a fixed customer charge. Nonetheless, in this application, SoCalGas's fixed customer charge proposal adheres to the same guidelines, while enhancing the proposal to reflect concerns enumerated in the 2020 TCAP decision as well as advancements in ratemaking policy.

In the 2020 TCAP decision, the Commission gave two primary reasons for not authorizing SoCalGas to increase its residential fixed customer charge: (i) that the thenupcoming Gas Planning Rulemaking proceeding (R.20-01-007) would be the appropriate proceeding to address residential fixed customer charges and (ii) the affordability of bill impacts attributable to Applicants' fixed customer charge proposal was in question. I address these issues below.

¹⁹ As with SoCalGas's current tariffs, this charge would be implemented as per-meter per-day charge.

²⁰ D.20-02-045 at 100 (Conclusions of Law (COL) 36).

²¹ *Id.* at 94 (Findings of Fact (FOF) 82).

In the 2020 TCAP decision, the Commission stated, "The long-term gas reliability 1 2 rulemaking, as opposed to this TCAP application, is the appropriate venue to determine overall 3 policies regarding rate design for recovering gas infrastructure costs, including whether to adopt fixed monthly charge."²² While Track 1 of the Gas Planning rulemaking proceeding has 4 5 completed recently, the cost allocation and rate design principles are to be addressed in Track 6 2B. However, now over 2.5 years from the issuance of the Gas Planning rulemaking proceeding, 7 Track 2B has not yet begun. Given the considerable delay in addressing cost allocation and rate 8 design issues in the Gas Planning rulemaking, and the future uncertainty as to when the 9 Commission might rule on these issues in the Gas Planning rulemaking, SoCalGas proposes to 10 address the appropriate level of cost-based residential fixed customer charge in this proceeding. 11 A second reason articulated by the Commission behind rejecting the Applicants' 12 residential fixed customer charge proposal in the last TCAP was that "The Applicants' request 13 for a \$10 fixed monthly residential customer charge for SDG&E and SoCalGas customers does not meet the objective of affordability."²³ SoCalGas has modified its residential fixed customer 14 15 charge proposal in this proceeding to minimize gas bill increases for its low-income customers, 16 as represented by CARE customers. To mitigate the bill impacts for CARE customers, 17 SoCalGas proposes to establish a separate, lower fixed customer charge for CARE customers. 18 Currently, CARE customers receive a 20% bill discount on gas charges, including a 20% 19 discount on customer charges, volumetric transportation charges, and gas costs. In the last 20 TCAP, Applicants did not propose to increase the CARE discount from the 20% level to mitigate 21 bill increases for CARE customers with low gas usage. In this proceeding, SoCalGas proposes

²² *Id.* at 95 (FOF 89).

²³ *Id.* at 94 (FOF 83).

1 to establish a separate, lower CARE fixed customer charge which, when taking into account the 2 20% CARE discount, will be effectively 50% below the non-CARE fixed customer charge. 3 SoCalGas will maintain the currently effective 20% CARE discount on volumetric transportation 4 charges and gas costs. While the 20% discount afforded to CARE customers will continue to be 5 collected through Public Purpose Program Surcharge (PPPS) rates pursuant to other Commission 6 decisions, the lower CARE fixed customer charge will be recovered through residential 7 transportation rate design. That is to say, the baseline and non-baseline transportation rates will 8 be set to fully recover SoCalGas's authorized revenue requirement allocated to the residential 9 class based on the two-tier fixed customer charge structure. Table 5 below summarizes 10 SoCalGas's residential fixed customer charge proposals.

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Table 5: Current and Proposed Residential Fixed Customer Charge	
and Volumetric Rates	

-	Non-CARE Fixed customer charge \$/month	CARE Fixed customer charge \$/month	Effective CARE Fixed customer charge After 20% CARE Discount \$/month-	Baseline Rate \$/th -	Non- Baseline Rate \$/th-	Baseline Rate After 20% CARE Discount \$/th-	Non- Baseline Rate After 20% CARE Discount \$/th-
2024 -	\$5-	\$5-	\$4 -	\$0.79072	<u>\$1.21648</u>	\$0.63258	\$0.97319
2025-	\$10-	\$6.25-	\$5-	\$0.59544	\$1.21620	\$0.47635	\$0.97296
2026-	\$15-	\$9.375-	\$7.50	\$0.37182	\$1.21293	\$0.29745	\$0.97034
2027-	\$20-	\$12.50	\$10-	\$0.15290	<u>\$1.20891</u>	\$0.12232	\$0.96713
-	<u>Non-CARE</u> <u>Fixed customer</u> <u>charge \$/month</u>	<u>CARE Fixed</u> <u>customer</u> <u>charge \$/month</u>	Effective CARE Fixed customer charge After 20% CARE Discount \$/month	<u>Baseline</u> <u>Rate \$/th</u>	<u>Non-</u> <u>Baseline</u> <u>Rate \$/th</u>	Baseline Rate After 20% CARE Discount <u>\$/th</u>	<u>Non-</u> <u>Baseline</u> <u>Rate After</u> <u>20% CARE</u> <u>Discount</u> <u>\$/th</u>
2024	<u>\$5</u>	<u>\$5</u>	<u>\$4</u>	<u>\$0.79131</u>	<u>\$1.21713</u>	<u>\$0.63305</u>	<u>\$0.97371</u>
2025	<u>\$10</u>	<u>\$6.25</u>	<u>\$5</u>	<u>\$0.59594</u>	<u>\$1.21677</u>	\$0.47675	<u>\$0.97341</u>
2026	<u>\$15</u>	<u>\$9.375</u>	<u>\$7.50</u>	<u>\$0.37233</u>	<u>\$1.21350</u>	<u>\$0.29786</u>	<u>\$0.97080</u>
2027	<u>\$20</u>	<u>\$12.50</u>	<u>\$10</u>	<u>\$0.15343</u>	<u>\$1.20950</u>	<u>\$0.12274</u>	<u>\$0.96760</u>

There is an additional impetus for the Commission to grant SoCalGas its proposed twotier residential fixed customer charge structure. In June 2022, Assembly Bill (AB) 205 was passed into law. AB 205 addresses various residential rate reforms for California electric utilities. AB205 would: (i) require the CPUC to authorize a fixed customer charge for default residential rates no later than July 1, 2024; (ii) eliminate the \$10 and \$5 fixed customer charge caps; (iii) require the fixed customer charge to be established on at least a three incomegraduated basis, ensuring low-income customers pay a smaller fixed customer charge; and (iv) allow the CARE discount to exceed 35%. These electric rate reform initiatives are conceptually transferable to gas utilities. The lower fixed customer charges for CARE customers relative to non-CARE customers, as proposed in my testimony, is essentially a two-tier income-graduated fixed customer charge, consistent with the policy direction of AB 205.

In prior cost allocation proceedings, parties have expressed concern that increases in residential fixed customer charges would dampen the conservation price signal. Parties warned that, if volumetric rates are reduced, then customers would be less incented to reduce their use of natural gas. Further, reduced volumetric rates could provide less of an incentive to invest in more Energy Efficient appliances.

As discussed previously, SoCalGas's baseline and non-baseline rates are calculated using the Composite tier differential, where non-baseline rates are set at 115% of the Composite rate less gas price. Commission policy credits all fixed customer charge revenue to baseline rates in this equation – that is to say, as fixed customer charges increase, baseline rates decrease and nonbaseline rates stay relatively the same. Table 5 above depicts this result. As SoCalGas proposes to increase the residential fixed customer charge in 2025, 2026, and 2027, the baseline rate declines with each change. On the contrary, the non-baseline rate is generally unchanged in each scenario. As a result, customers using more natural gas than their baseline allowances will see
 no change in the marginal price of gas as a result of a higher fixed customer charge, maintain the
 conservation price signal.²⁴

Meeting California's decarbonization goal is likely to lead to significant reduction in natural gas demand in the future, particularly for residential customers. To mitigate rates and bill impacts during this transition, it is imperative that the Commission address residential rate design issues, particularly the appropriate level of residential fixed charge. In the past, in considering whether to introduce/increase a residential fixed customer charge, the Commission had focused on immediate bill impacts. Transitions in the gas industry with forthcoming significant residential gas load and customer departure to electrification require that the Commission address the negative rates and bill impacts in the distant future of not introducing the appropriate level of fixed charge now.

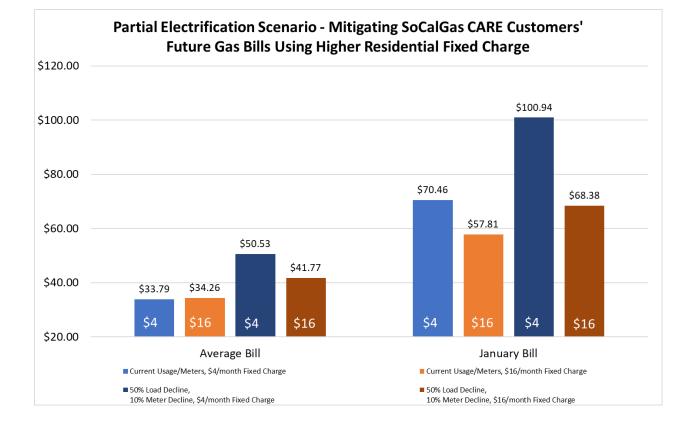
To highlight the importance of setting the appropriate level of residential fixed charge now to mitigate the bill impacts for remaining low-income customers in the distant future (say, in 2035), SoCalGas conducted a hypothetical analysis assuming a partial electrification scenario. In this scenario, SoCalGas assumed that by 2035, SoCalGas would lose 50% of residential gas load and 10% of residential customers to electrification. It may be reasonable to assume that major gas appliances, such as, space and water heating would be replaced with electric versions; however, the majority of current gas customers could retain gas service for lifestyle appliances, such as, gas ranges and fireplaces. SoCalGas assumed that low-income CARE customers are less likely to replace gas appliances with electric appliances due to budget constraints, making

²⁴ To the extent these customers' net bills decrease for the same usage level, as a result of increased residential fixed customer charges, it would be because the baseline rate component of their bill would be decreasing.

CARE customers relatively high gas usage customers in 2035. SoCalGas also assumed that SoCalGas's residential customers' share of revenue requirement would remain at the current 2022 level. Under these assumptions, SoCalGas estimated the impacts of a \$4 and a \$16 per month CARE fixed customer charge (representing a 20% CARE discount under the current residential rate design method) on an average-usage residential CARE customer's bill now (current usage and customer counts) and in 2035 (50% gas load and 10% customer count reduction) as shown in Chart 1 below.



Chart 1: Partial Electrification Scenario: CARE Bill Impacts Now And 2035



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Chart 1 shows that for an average-usage CARE customer, the introduction of higher fixed customer charge of \$16 per month (and lower volumetric rates) would increase the average monthly gas bill from \$33.79 to \$34.26 and decrease the January gas bill from \$70.46 to \$57.81. In the distant future, due to declining load and customer counts, the monthly gas bill would be

1 higher under both the \$4 and the \$16 per month residential CARE fixed customer charges. 2 However, Chart 1 shows that in the distant future average monthly bill would be lower under the 3 \$16 per month fixed customer charge (\$41.77 per month versus \$50.53 per month under the \$4 4 fixed customer charge). In the distant future, the bill would be even lower under the \$16 per 5 month fixed customer charge in January (\$68.38 per month versus \$100.94 per month under the 6 \$4 fixed customer charge). In the distant future, with higher cost-based fixed customer charge, 7 low usage customers including presumably non-CARE customers with lifestyle gas appliances 8 with minimal gas usage, would pay their share of fixed costs, eliminating the cross subsidy from 9 relatively high usage customers in the distant future including average-usage CARE customers. Average-Usage CARE customers, therefore, would benefit from cost-based higher customer 10 11 charge.

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2. SDG&E Proposes to Retain Its Current Residential Minimum Bill

In this proceeding, SDG&E proposes to retain the current \$4 per month residential minimum bill even though SDG&E continues to believe that cost-based residential fixed customer charge, rather than minimum bill, reflects superior rate design principle. Considering 16 AB 205 discussed above, SDG&E will focus on the implementation of a residential fixed customer charge on its electric customers before implementing a residential fixed customer 18 charge on its gas customers in a future proceeding.

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3. Alternative Methods to Calculate Marginal Customer Connection Cost

21 In Ordering Paragraph 8 of D.20-02-045 states, "San Diego Gas & Electric Company and 22 Southern California Gas Company shall continue to provide customer cost allocation results in 23 future Triennial Cost Allocation Proceeding applications using the Long Run Marginal Cost

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Method and the four approaches, as previously directed in Decision 17-09-035.²⁵ The four
 approaches referenced above for calculating the capital component (gas service line, regulator
 and meter) of marginal customer-related costs are the (i) Rental method, (ii) new Customer Only
 (NCO) method; (iii) Adjusted Rental method 1 (ARM1) and (iv) Adjusted Rental method 2
 (ARM2). In the last TCAP decision, the Commission adopted the Rental method for allocating
 the capital component of customer-related costs.

7 The Rental method calculates the capital component of marginal customer-related cost as 8 the incremental cost of hooking up an additional customer. The NCO method calculates the 9 same component as the total hookup costs for new customers divided by the total customers, both existing and new. The ARM1 and ARM2 are the two alternative methods that the 10 11 Commission's Energy Division proposed in PG&E's GRC Phase 2 (A.16-06-013) by making certain adjustments to the Rental method.²⁶ Applicants discussed extensively these four 12 approaches, identifying the shortcomings of the NCO and ARM1 and ARM2 methods in the last 13 14 TCAP. Appendix C contains excerpts from the last TCAP Chaudhury testimony (Chapter 12) 15 containing the discussion of the four approaches for calculating the capital component of customer-related costs, which I adopt again as my testimony here.²⁷ 16

Applicants have applied the Commission direction to calculate and present marginal
customer-related costs that could be recovered in residential customer fixed charge under these

²⁵ D.20-02-045 at 104 (OP 8).

²⁶ D.17-09-035 at 34-39, contains a discussion of these methods. Also, see the Energy Division Staff Proposal on Adjusted Rental Method for Marginal Customer Cost in PG&E GRC Phase 2 (A.16-06-013) Second Fixed Cost Workshop (November 2, 2016).

²⁷ See Chaudhury Testimony (Chapter 12) at 11-17 in the 2020 TCAP.

- 1 four approaches. Table 6 (for SoCalGas) and Table 7 (for SDG&E) show the estimated costs
- 2 derived under the four methods.²⁸

Rental Method	NCO Method	Adjusted Rental Method 1	Adjusted Rental Method 2
\$22.69	\$19.68	\$13.73	\$20.68

Rental Method	NCO Method	Adjusted Rental Method 1	Adjusted Rental Method 2
\$17.74	\$24.71	\$6.99	\$14.72

As shown in Table 6, even the minimum estimates of the range of estimated customer-related costs would support about \$14 per month fixed customer charges for SoCalGas. This Table shows that the Rental method would support a fixed residential customer charge as high as approximately \$23 for SoCalGas. As discussed earlier, SDG&E is not proposing a residential fixed customer charge in this CAP. SDG&E's residential minimum connection cost provided in Table 7 is for compliance with D.20-02-045 and not for seeking a residential fixed customer charge for SDG&E's gas customers.

4. Residential Bill Impacts of SoCalGas's Proposals

Table 8 below shows the 2024 through 2027 residential bills for non-CARE and CARE
customers consistent with SoCalGas's proposals in this proceeding. Unlike prior cost allocation
proceedings, SoCalGas is seeking Commission's approval for increasing residential customer
charge and escalating embedded transmission and storage costs over the CAP horizon. As such,
SoCalGas is showing residential bill impacts for all the years spanning this CAP.

²⁸ The NCO method includes replacement costs of service lines, regulators and meters for 1.5% of existing service lines (both SoCalGas and SDG&E), 3.0% of SoCalGas's meters and regulators, and 2.4% of SDG&E's meters and regulators.

²⁹ Source: witness Schmidt-Pines' (Chapter 9) workpapers.

³⁰ Source: witness Foster's (Chapter 10) workpapers.

Average **Average Monthly Bills** Therms/Month 2025 SCG Residential Bill (Zone 1) 2022 2024 2026 2027 -non-CARE Monthly Average \$56.08 \$55.54 \$55.55 36 \$54.89 \$54.35 -CARE Monthly Average 27 \$32.15 \$31.75 \$32.16 \$32.05 \$32.03 Average Average Monthly Bills 2022 SCG Residential Bill (Zone 1) **Therms/Month** 2024 2025 2027 2026 \$<u>56.08</u> non-CARE Monthly Average <u>\$55.56</u> \$55.57 \$54.91 \$54.36 36 CARE Monthly Average 27 \$32.15 \$31.76 \$32.17 \$32.06 \$32.04

Table 8 – SoCalGas Average Residential Bills

Table 8 shows that for both SoCalGas CARE and non-Care customers average monthly bill will decrease slightly between 2022 and 2024, primarily due to a decrease in residential transportation rates in 2024 as shown in Table 1. Small bill changes in subsequent years (2025, 2026 and 2027) reflect the combined effects of escalating embedded transmission and storage costs and increases of the two-tier residential fixed customer charges over the CAP horizon.

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5. Bill Impacts of SoCalGas's Proposed Residential Customer Charge

As discussed earlier, SoCalGas proposes to phase-in residential customer charge increases over this CAP horizon: retain the \$5 customer charge in 2024; increase it from \$5 to \$10 in 2025; from \$10 to \$15 in 2026 and from \$15 to \$20 in 2027. To evaluate the bill impacts of its fixed customer charge proposal, SoCalGas has focused on the gas bill of its CARE customers. Based on 2021 gas usage data for CARE customers, SoCalGas estimated monthly bills for CARE customers under four alternative gas usage scenarios: average, median, 10th percentile and 90th percentile usage.³¹ SoCalGas chose the 10th percentile usage scenario to represent low usage customers and the 90th percentile usage scenario to represent high usage customers. For each usage scenario, there are three bill impacts lines (relative to \$4 per month

³¹ 10th percentile usage means that 10% of the CARE customers' gas usage is at or below the 10th percentile usage level. 90th percentile usage means that 90% of the CARE customers' gas usage is at or below the 90th percentile usage level (10% of the CARE customers gas usage is above the 90th percentile usage level). As of December 2021, SoCalGas had 1,785,962 CARE customers.

- 1 CARE residential fixed customer charge in 2024) each representing proposed effective
- 2 residential CARE fixed customer charge for 2025 (blue line representing \$5 per month), 2026
- 3 (red line representing \$7.5 per month) and 2027 (red line representing \$10.0 per month). Chart 2
- 4 below shows these monthly bill impacts for CARE customers.

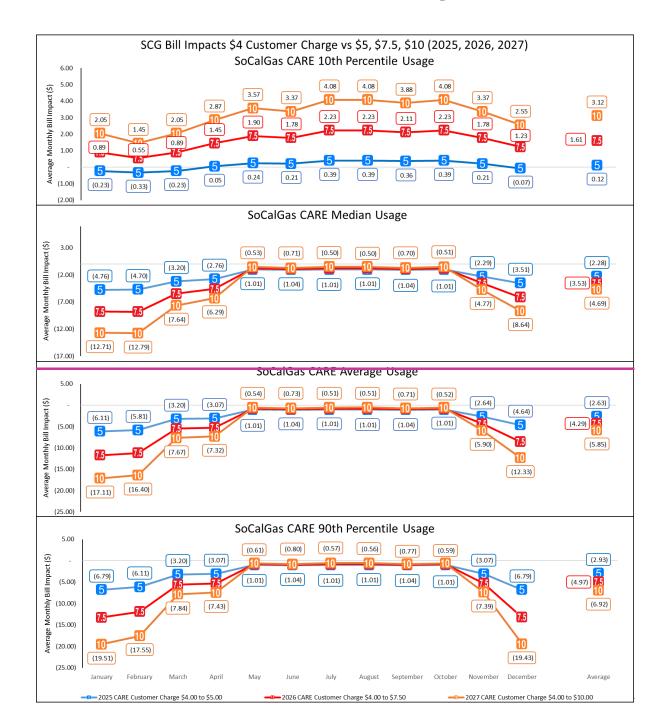
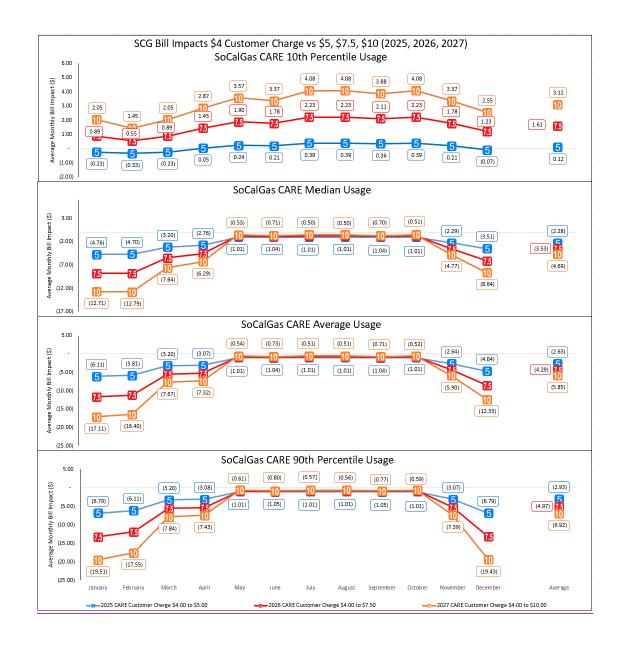


Chart 2: Illustrative SoCalGas Annual Bill Impacts

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Chart 2 shows bill impact for each month, as well as average monthly bill impact for SoCalGas' CARE customers for the scenarios I described above. The bill impacts capture the difference in bills between SoCalGas's proposed residential CARE fixed customer charges in 2025, 2026 and 2027 versus the status quo \$4 per month fixed customer charge. A positive monthly bill impact value reflects that the monthly bill will increase under the proposed fixed customer charge relative to the status quo \$4 per month CARE residential fixed customer charge. Similarly, a negative monthly bill impact value reflects that the monthly bill will decrease under the proposed fixed customer charge relative to the status quo \$4 per month fixed customer
 charge.

3 In response to the 2020 TCAP decision's finding regarding low-income customer 4 affordability, as discussed earlier, in this proceeding, SoCalGas proposes to establish a separate, 5 lower CARE fixed customer charge that, when taking into account the 20% CARE discount, will 6 be effectively 50% below the non-CARE fixed customer charge. For low gas usage (10^{th}) 7 percentile) CARE customers, Chart 2 shows that the 2025 monthly bills under the proposed \$5 8 per month CARE fixed customer charge (\$10 for non-CARE customers) is expected to remain 9 virtually the same as under the status quo \$4 per month CARE fixed customer charge (\$5 for 10 non-CARE customers) due to the introduction of the two-tier fixed customer charge. The 2026 11 average monthly bill under \$7.5 per month CARE fixed customer charge (\$15 for non-CARE 12 customers) is expected to increase by \$1.61 per month. The 2027 average monthly bill under 13 \$10 per month CARE fixed customer charge (\$20 for non-CARE customers) is expected to 14 increase by \$3.12 per month.

For all median, mean and 90th percentile usage CARE customers, the bills are expected to be lower with higher CARE fixed customer charges of \$5, \$7.5 and \$10, for 2025, 2026 and 2027, respectively, with the bill reduction being significant in winter months when the bills are high. It is important to note that these low-income customers with average or high gas usage would benefit from the Applicants' proposed two-tiered monthly customer charges.

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6. Residential Bill Impacts of SDG&E's CAP Proposals

Table 9 below shows the 2024 through 2027 residential bills for non-CARE and CARE
 customers consistent with SDG&E's proposals in this proceeding. Unlike prior cost allocation
 proceedings, SDG&E is seeking Commission's approval for escalating embedded transmission

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1 costs over the CAP horizon. As such, SDG&E is showing residential bill impacts for all the

2 years spanning this CAP.

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-	Average		Average Monthly Bills					
SDG&E Residential	Therms/Month	2022	202 4	2025	2026	2027		
-non-CARE Monthly Average	2 4	\$47.23	\$52.42	\$52.41	\$52.38	\$52.3 4		
-CARE Monthly Average	20	\$30.02	\$33.41	\$33.40	\$33.38	\$33.36		
_	Average	Average Monthly Bills						
SDG&E Residential	Therms/Month	<u>2022</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>		
non-CARE Monthly Average	<u>24</u>	<u>\$47.23</u>	<u>\$52.60</u>	<u>\$52.59</u>	<u>\$52.56</u>	<u>\$52.52</u>		
CARE Monthly Average	<u>20</u>	<u>\$30.02</u>	<u>\$33.52</u>	<u>\$33.52</u>	<u>\$33.50</u>	<u>\$33.47</u>		

Table 9 – SDG&E Average Residential Bills

Table 9 shows that for both SDG&E CARE and non-CARE customers average monthly bill will increase between 2022 and 2024, primarily due to the significant increase in residential transportation rates in 2024 as shown in Table 2. SDG&E's residential bills remain essentially the same in the subsequent years 2025, 2026 and 2027.

7. Implementation of SoCalGas's Phased-in Two-Tier Residential Fixed Customer Charge Proposal

10 As shown in Table 5 above, SoCalGas proposes, beginning in 2025, to increase the 11 residential fixed customer charge and to establish a two-tier structure, which will necessarily 12 require billing modifications. In SoCalGas's General Rate Case proceeding (A.22-05-015), 13 SoCalGas has proposed to replace its legacy Customer Information System (CIS) with a new, 14 modern billing platform. If SoCalGas's CIS proposal is adopted in the GRC, SoCalGas will be 15 required to establish a "freeze" period, whereby changes to the legacy CIS can no longer be 16 made. At this time, that freeze period is anticipated to begin around January 2025. SoCalGas 17 currently estimates the two-tier residential fixed customer charge proposal in this proceeding can 18 be implemented in approximately six months. Accordingly, so long as a decision is issued in this 19 proceeding before April 1, 2024, SoCalGas anticipates being able to complete the necessary 20 billing upgrades before the CIS freeze. If the decision is issued after April 1, 2024, SoCalGas

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will need to adjust the implementation phase-in to account for any identified freeze period, and
will likely incorporate the change in the new CIS solution, anticipated for 2026. Alternatively, if
the Commission adopts modifications to the residential rate design that differ from those
presented in my testimony, SoCalGas will need to analyze the impacts of the adopted solution to
determine the appropriate implementation schedule. Either way, to be sure, SoCalGas will not
implement an increased residential fixed customer charge without the corresponding ability to
implement the two-tier structure.

B. Submeter Credit

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9 Submeter credits apply to utility customers with a master meter who provide gas service 10 to residential sub-units (e.g., multi-family dwelling units and mobile home parks). D.04-04-043 11 established a method for calculating submeter credits. In that decision, certain categories of 12 costs were defined as "Utility Avoided Costs"--the costs that utilities avoid for which a master meter customer is reimbursed through the submeter credit provided by the utility.³² In this 13 14 proceeding, the Applicants' proposed submeter credits are based on updated studies in 15 compliance with the methodology set forth in D.04-04-043, and as was used most recently to 16 update the submeter credits in the 2020 TCAP approved by D.20-02-045. Currently, SoCalGas's 17 submeter credit is set at \$0.28800 /meter/day and SoCalGas proposes to set it at 18 \$0.33271/meter/day for 2024. With residential customer charge increasing in 2025, 2026 and 2027, the submeter credits in these years will be \$0.16767, \$0.0 and \$0.0, respectively.³³ 19

³² To the extent these costs do not exceed the average costs that a utility would have incurred in providing direct service to sub-unit customers.

³³ Per the method for calculating submeter credit, SoCalGas's proposed increases in customer charge has the effect of lowering submeter credits in 2025, 2026 and 2027.

SDG&E's submeter credits are currently set at \$0.58060/meter/day for multi-family (GS) customers and \$0.60099/meter/day for mobile home (GT) customers. SDG&E proposes to set them at \$0.82422/meter/day and \$0.85085/meter/day, respectively, for this CAP term. C. **Core C&I Rates** SoCalGas and SDG&E each have a single tariff serving its core commercial and industrial (C&I) customers, Schedule G-10 for SoCalGas and Schedule GN-3 for SDG&E. Presently, SoCalGas's G-10 rate design consists of a \$15 customer charge and three tiers of declining block volumetric rates. SDG&E's GN-3 rate design consists of a \$10 customer charge and three tiers of declining block volumetric rates. 10 In D.20-02-045, the Commission retained the current rate structure for the different tiers

within SoCalGas's G-10 rate design and SDG&E's GN-3 rate design. Neither SoCalGas nor SDG&E proposes any changes to the current methodology.

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D. Natural Gas Vehicle (NGV) Compression Rate Adder

14 A compression surcharge or compression rate adder is intended to cover the cost of providing compressed natural gas (CNG) to motor vehicles fueling at public access CNG vehicle refueling stations owned and operated by Applicants. The compression rate adder is charged to 16 customers on a volumetric basis. This adder is incremental to the uncompressed commodity 18 charge and transportation charge. The compression rate adder reflects the capital and operating 19 costs of compressing the natural gas and providing public access to CNG fuel for NGV owners. 20 Additional state fuel tax, federal excise tax, and utility user taxes, which can vary by location, are also charged to customers. Currently, there is a Sempra California Utilities-wide³⁴ compression

Sempra California Utilities-wide rate refers to the calculation of a single rate between SoCalGas and SDG&E for a customer class, before applying utility-specific adders, such as Franchise Fees and Uncollectibles.

rate adder across both SoCalGas and SDG&E. Therefore, the compression rate adders for
 SoCalGas and SDG&E are nearly identical, with only a small difference due to differences in the
 Franchise Fees and Uncollectibles between the utilities.

4 In this CAP, Applicants have updated the NGV compression rate adders to reflect current 5 costs. These costs are composed of a capital-related revenue requirement for public-access 6 refueling equipment and a fully-loaded O&M-related revenue requirement. The Sempra 7 California Utilities-wide NGV compression rate adder is derived by dividing the combined 8 SoCalGas and SDG&E compression cost revenue requirements by the combined demand forecast for compressed NGV volumes.³⁵ The resulting NGV compression rate adders proposed 9 10 for this TCAP term are \$0.91453 per therm and \$0.92010 per therm for SoCalGas and SDG&E, 11 respectively.

12 **III.** N

NONCORE RATE DESIGN

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A. Noncore Distribution Rates

Applicants' current distribution-level services for noncore C&I and electric generation (EG) customers are provided under Schedule GT-NC for SoCalGas and Schedules GTNC and EG for SDG&E. The current noncore C&I rate design consists of a customer charge of \$350 per month for both the utilities, four tiers of declining block volumetric rates for SoCalGas and a single tier volumetric rate for SDG&E. For EG customers, there are Sempra California Utilitieswide rates; small EG customers pay a \$50 customer charge and a volumetric rate, and large EG customers pay a lower volumetric rate. Neither SoCalGas nor SDG&E proposes any changes to the current methodology.

³⁵ The compressed NGV volumes are presented by witness Rose-Marie Payan (Chapter 3).

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B. Transmission Level Service Rates

Applicants' current Sempra California Utilities-wide rates for transmission-level service
customers are provided under Schedule GT-TLS for SoCalGas and Schedule TLS for SDG&E.
The current rate design consists of a class-average volumetric rate option and a reservation rate
option for customers served from the transmission system. Neither SoCalGas nor SDG&E
proposes any changes to the current methodology.

IV. OTHER PROPOSALS

A.

Updated Allocation of Self Generation Incentive Program (SGIP) Funds Based on Program Participation

10 The last TCAP decision, in Ordering Paragraph 9, ordered Applicants to allocate SGIP 11 costs using a hybrid method by allocating half of the SGIP costs to the host customer classes and 12 the other half to the receiving customer classes. Tables 10 and 11 below show the current SGIP 13 cost allocation percentages and the proposed updated SGIP cost allocation percentages based on 14 the recent three years' program participation across customer classes for SoCalGas and SDG&E, 15 respectively.

Table 10: SoCalGas SGIP Cost Allocation SoCalGas SGIP Cost Allocation

Class	Recent 3 Ye	ar Total Incentives Paid	Proposed % Allocation	Current % Allocation
Residential	\$	9,973,556	37.1%	8.3%
Core C&I	\$	11,530,507	42.9%	34.0%
NonCore EG	\$	4,557,683	16.9%	40.0%
NonCore C&I	\$	838,662	3.1%	17.7%
Other Core		\$0	0.0%	0.0%
Total		\$26,900,409	100.0%	100.0%

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	-	Table 11: SDG&E SGIP	Cost Allocation	
		Recent 3 Year Total		Current %
SDG&E Customer Cl	ass	Incentives Paid	Proposed % Allocation	Allocation
Residential	\$	13,464,818	62%	12%
Core C&I	\$	7,525,459	35%	68%
NonCore EG	\$	563,386	3%	20%
Grand Total	\$	21,553,664	100%	100%

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New Regulatory Accounts

1. Balancing Plus Services Memorandum Account (BPSMA)

As discussed in Chapter 6 (Ahmed), SoCalGas is proposing to establish the Balancing Plus Services Memorandum Account (BPSMA). The purpose of the BPSMA is to record incremental revenues charged to customers for the Balancing Plus Service. SoCalGas proposes to allocate the BPSMA balance across customer classes based on each class's share of average year throughput (i.e., equal cents per therm), the same method currently used for allocating storage load balancing costs.

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San Joaquin Valley Disadvantaged Communities Balancing Account (SJVDACBA)

Pursuant to Decision 18-12-015, SoCalGas submitted Advice Letter (AL) 5414 to establish the San Joaquin Valley Disadvantaged Communities Balancing Account (SJVDACBA)

1	to record costs associated with the SJVDAC's pilot projects. The SJVDACBA has two
2	subaccounts: (i) To-The-Meter (TTM) subaccount to record the revenue requirement associated
3	with all TTM costs for recovery in transportation rates; and (ii) Beyond-The-Meter (BTM)
4	subaccount to record BTM non-leveraged costs for recovery in Public Purpose Program (PPP)
5	surcharge rates. SoCalGas submitted AL 5414-A replacing AL 5414 in its entirety to propose to
6	use the equal percent of authorized margin (EPAM) ³⁶ methodology to amortize the
7	SJVDACBA. California Public Advocates' Office protested the use of EPAM and suggested the
8	use of equal cents per therm (ECPT) ³⁷ method. Resolution E-5055 addressed the protest but
9	decided that the issue of whether EPAM or ECPT method is the appropriate cost allocation
10	method for recovering SJVDAC pilot costs should be addressed in SoCalGas' next cost
11	allocation proceeding. In this proceeding, SoCalGas is proposing to use the ECPT method to
12	amortize the balance in SJVDACBA.

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This concludes my prepared direct testimony.

³⁶ Under EPAM method, each customer class pays its share of authorized margin.

³⁷ Under ECPT method, each customer class pays its share of average-year gas usage.

1 **V.**

QUALIFICATIONS

2	My name is Iftekharul (Sharim) Bar Chaudhury. I am employed by SoCalGas and
3	SDG&E as the Rate Design and Demand Forecasting Manager within the CPUC/FERC Gas
4	Regulatory Affairs Department, which supports gas regulatory activities of both SoCalGas and
5	SDG&E. My business address is 555 West Fifth Street, Los Angeles, California, 90013-1011.
6	I hold a Bachelor of Arts degree in Economics from Illinois State University. I received
7	my Masters and Ph.D. degrees in Economics from the University of California, San Diego.
8	Have held my current position managing the rates group since August 2014 and have
9	been managing the demand forecasting group since April 2013. Prior to joining SoCalGas, I
10	worked at Southern California Edison Company from June 1999 to March 2013, holding several
11	positions of increasing responsibility, from Senior Analyst to Manager of Price Forecasting to
12	Manager of Long-Term Demand Forecasting. From October 1998 to May 1999, I worked at the
13	National Economic Research Associates (NERA) as a Senior Consultant. Prior to joining
14	NERA, I worked at SoCalGas from 1991 to 1998, holding several positions of increasing
15	responsibility, starting as Marketing Analyst to Senior Economist in the Rate Design group to
16	Manager of Rate Design. I also worked for about a year at the California Energy Commission in
17	the Demand Analysis Office.
18	Have previously testified before this Commission.
19	
20	My name is Michael Foster. My business address is 555 West Fifth Street, Los Angeles,
21	<u>California, 90013-1011.</u>
22	I am employed by SoCalGas as the Rate Design and Demand Forecasting Manager
23	within the CPUC/Federal Energy Regulatory Commission (FERC) Gas Regulatory Affairs
24	Department, which supports gas regulatory activities of both SoCalGas and SDG&E. I have been
25	employed with the Companies since December 2001. I have held my current position managing

1 the rates and demand forecasting groups since February 2023. Previously, I held various 2 positions of increasing responsibility, most recently as a Principal Economic Advisor for the gas Rate Design function for both SoCalGas and SDG&E, from December 2016 through February 3 4 2023. I received a Bachelor of Arts degree in Economics from the University of California, 5 6 Santa Barbara in 1995 and a Master of Business Administration degree from the Darden School 7 of Business at the University of Virginia in 2000. 8 I have previously testified before the Commission.

APPENDIX A

TABLE 1 Natural Gas Transportation Rates Southern California Gas Company January, 2024 Rates

09/20/22

				09/20/22 TCAP 1/1/2024						
		Pr	esent Rates	TCAP 1/1/2024		osed Rates		Cha	nges	
		Mar-1-22	Proposed	Mar-1-22	Jan-1-24	Proposed	Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Change	Change	change
		Mth	\$/therm	\$000's	Mth	\$/therm	\$000's	\$000's	\$/therm	%
		A	B	¢0003	D	E	ф0003 F	G	H	1
1	CORE	~	5		5	-				
2	Residential	2,346,353	\$1.09046	\$2,558,598	2,185,983	\$1.08349	\$2,368,480	(\$190,118)	(\$0.00697)	-0.6%
3	Commercial & Industrial	992,706	\$0.63128	\$626,673	880,320	\$0.68863	\$606,212	(\$20,461)	\$0.05735	9.1%
4		002,700	\$0.00 i20	<i>Q020,010</i>	000,020	\$0.00000	\$000,212	(\$20,101)	\$0.00700	0.170
5	NGV - Pre Sempra-Wide	178,769	\$0.36605	\$65,438	167,083	\$0.46308	\$77,373	\$11,935	\$0.09703	26.5%
6	Sempra-Wide Adjustment	178,769	(\$0.01196)	(\$2,138)	167,083	(\$0.01473)	(\$2,461)	(\$324)	(\$0.00277)	23.2%
7	NGV - Post Sempra-Wide	178,769	\$0.35409	\$63,300	167,083	\$0.44835	\$74,912	\$11,611	\$0.09426	26.6%
8			\$0.00 loc	400,000	101,000	\$0.11000	¢. 1,012	\$ 11, 5 11	\$0.00 i20	20.070
9	Gas A/C	416	\$0.27022	\$112	140	\$0.43076	\$60	(\$52)	\$0.16054	59.4%
10	Gas Engine	22,302	\$0.25948	\$5,787	19,830	\$0.26166	\$5,189	(\$598)	\$0.00218	0.8%
11	Total Core	3,540,545	\$0.91920	\$3,254,471	3,253,356	\$0.93899	\$3,054,854	(\$199,618)	\$0.01978	2.2%
12		0,010,010	\$0.01020	φ0 <u>,201,171</u>	0,200,000	<i>QUICOCCC</i>	φ0,001,001	(\$100,010)	<i>Q</i> 0.01010	2.270
13	NONCORE COMMERCIAL & INDUSTRIAL									
14	Distribution Level Service	919,735	\$0.18162	\$167,045	894,285	\$0.20065	\$179,440	\$12,395	\$0.01903	10.5%
15	Transmission Level Service (2)	626,080	\$0.03353	\$20,994	750,680	\$0.05298	\$39,768	\$18,774	\$0.01944	58.0%
16	Total Noncore C&I	1,545,814	\$0.12164	\$188,039	1,644,965	\$0.13326	\$219,207	\$31,169	\$0.01162	9.5%
17		.,,	****	* ····	.,		+=	40 · 1 · 00	******	
18	NONCORE ELECTRIC GENERATION									
19	Distribution Level Service									
20	Pre Sempra-Wide	331,442	\$0.16782	\$55,623	335,280	\$0.19376	\$64,965	\$9,342	\$0.02594	15.5%
21	Sempra-Wide Adjustment	331,442	(\$0.01191)	(\$3,949)	335,280	(\$0.01188)	(\$3,982)	(\$33)	\$0.00004	-0.3%
22	Distribution Post Sempra Wide	331,442	\$0.15591	\$51,675	335,280	\$0.18189	\$60,983	\$9,309	\$0.02598	16.7%
23	Transmission Level Service (2)	2.246.336	\$0.03273	\$73,532	1.800.969	\$0.05210	\$93,833	\$20,301	\$0.01937	59.2%
24	Total Electric Generation	2,577,778	\$0.04857	\$125,206	2,136,249	\$0.07247	\$154,816	\$29,610	\$0.02390	49.2%
25		0		+	_,,			+======		
26	TOTAL RETAIL NONCORE	4,123,593	\$0.07596	\$313,245	3,781,214	\$0.09892	\$374,024	\$60,779	\$0.02295	30.2%
27		, .,								
28	WHOLESALE									
29	Wholesale Long Beach (2)	79,646	\$0.02859	\$2,277	91,703	\$0.04931	\$4,522	\$2,244	\$0.02071	72.4%
30	Wholesale SWG (2)	66,431	\$0.02859	\$1,900	74,685	\$0.04931	\$3,683	\$1,783	\$0.02071	72.4%
31	Wholesale Vernon (2)	96,890	\$0.02859	\$2,771	97,040	\$0.04931	\$4,785	\$2,014	\$0.02071	72.4%
32	International (2)	116,299	\$0.02859	\$3,326	139,490	\$0.04931	\$6,878	\$3,553	\$0.02071	72.4%
33	Total Wholesale & International	359,267	\$0.02859	\$10,273	402,918	\$0.04931	\$19,867	\$9,594	\$0.02071	72.4%
34	SDG&E Wholesale	1,118,614	\$0.02934	\$32,826	841,578	\$0.04635	\$39,011	\$6,186	\$0.01701	58.0%
35	Total Wholesale Incl SDG&E	1,477,881	\$0.02916	\$43,099	1,244,496	\$0.04731	\$58,878	\$15,780	\$0.01815	62.2%
36		1 1 1 2 2			, ,					
37	TOTAL NONCORE	5,601,473	\$0.06362	\$356,344	5,025,711	\$0.08614	\$432,902	\$76,559	\$0.02252	35.4%
38								,		
39	Unbundled Storage (4)			\$0			\$0	\$0		
40	System Total (w/o BTS)	9,142,019	\$0.39497	\$3,610,815	8,279,067	\$0.42127	\$3,487,756	(\$123,059)	\$0.02630	6.7%
41	Backbone Transportation Service BTS (3)	2,532	\$0.36798	\$340,120	2,532	\$0.50099	\$463,062	\$122,942	\$0.13301	36.1%
42	SYSTEM TOTAL w/BTS	9.142.019	\$0.43217	\$3,950,935	8,279,067	\$0.47721	\$3,950,818	(\$117)	\$0.04503	10.4%
43			20110217				\$0,000,010	(*)	20101000	
44	EOR Revenues	208,941	\$0.09427	\$19,696	154,067	\$0.11172	\$17,212	(\$2,484)	\$0.01745	18.5%
45	Total Throughput w/EOR Mth/yr	9,350,960	\$0.00 7 21	ψ10,000	8,433,133	ψ0.11172	ψ17,212	(ψ2, 101)	ψ0.017+J	10.070
-5	Total moographic WEOK WILLY	3,000,000			5,400,100			L		

These rates are for Natural Gas Transportation Service from "Citygate to Meter." The Backbone Transportation Service (BTS) rate is for service from Receipt Point to Citygate.
 These Transmission Level Service (TLS) amounts represent the average transmission rate, see Table 7 for detailed list of TLS rates.
 BTS charge (\$/dth/day) is proposed as a separate rate. Core will pay through procurement rate, noncore as a separate charge. Charge is for both core and noncore customers

4) Unbundle (Vorage costs) is proposed as a separate rate; cost win pay introgin protection rate, initiate as a separate charge
 4) Unbundle Storage costs are not part of the Core Storage or Load Balancing functions (those are included in transport rates).
 5) All rates include Franchise Fees & Uncollectible charges.

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Volumes Rate D Remuse bits Volumes bits Rate bits Remuse bits Volumes bits Change bits Ch			Mar-1-22	Proposed	Mar-1-22	Jan-1-24	Proposed	Jan-1-24	Revenue	Rate	% Rate
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			Volumes	Rate	Revenues		Rate	Revenues		Change	change
D E F D E F C H 1 2 Residential 2.345.33 \$1.990.46 \$2.596.98 \$1.89.320 \$3.08.892 \$50.6872 \$50.6973 \$60.757 \$67.914 4 000.771 \$62.705 \$50.6172 \$50.6872 \$50.6872 \$50.6872 \$50.6972 \$50.6972 \$50.6975 \$91.997 5 NOV - Pre Sampa-Wide 178.769 \$50.3605 \$56.438 \$167.033 \$64.4356 \$57.386 \$51.948 \$50.09171 \$25.59 6 Sampa-Wide 178.769 \$50.3409 \$53.300 \$62.7088 \$17.775 \$50.9557 \$25.99 7 NOV - Pre Sampa-Wide 178.769 \$50.3409 \$53.305 \$30.85624 \$19.775 \$50.9512 \$29.92 \$23.242 \$50.254.071 \$2.3325 \$30.05624 \$30.05624 \$19.747 \$50.2912 \$20.22 \$20.22 \$20.22 \$20.22 \$20.22 \$20.22 \$20.22 \$20.22 \$20.22 \$20.92 \$20.22 \$20.			Mth	\$/therm	\$000's	Mth	\$/therm	\$000's	\$000's		
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6 NGV - Pre Sempa-Wide 177,789 S0 36605 \$56,318 170,703 S0 40316 \$77,386 \$11,448 \$0 00711 \$26,55 NGV - Post Sempa-Wide 178,769 \$0 01156 \$62,130 167,003 \$0.44346 \$77,386 \$51,10 \$50 00714 145,55 9 Gas A/C 416 \$0 27022 \$112 140 \$0.43061 \$51 \$55,19 \$50,2013 \$50,2015 \$55,190 \$50,2013 \$50,2015 \$55,190 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,2013 \$50,20133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,2133 \$50,22133									(/		
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38 50 50 50 39 Unbundled Storage (4) 50 50 50 39 System Total (w/o BTS) 9,142,019 \$0,39497 \$3,610,815 8,279,067 \$0.42160 \$3,490,438 (\$120,377) \$0.02663 6,7% 41 Backbone Transportation Service BTS (3) 2,532 \$0.36798 \$340,120 2,532 \$0.49936 \$461,557 \$121,437 \$0.13138 35.79 42 SYSTEM TOTAL w/BTS 9,142,019 \$0.43217 \$3,950,935 8,279,067 \$0.47735 \$3,951,995 \$1,060 \$0.04517 10.59 43 EOR Revenues 208,941 \$0.09427 \$19,696 154,067 \$0.11226 \$17,295 (\$2,401) \$0.01799 19.19											
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40 System Total (w/o BTS) 9,142,019 \$0.39497 \$3,610,815 8,279,067 \$0.42160 \$3,490,438 (\$120,377) \$0.02663 6,7% 41 Backbone Transportation Senice BTS (3) 2,532 \$0.36798 \$340,120 2,532 \$0.4936 \$461,557 \$121,437 \$0.13138 35.7% 42 SYSTEM TOTAL w/BTS 9,142,019 \$0.43217 \$3,950,935 \$8,279,067 \$0.47735 \$3,951,995 \$1,060 \$0.04517 10.5% 43 EOR Revenues 208,941 \$0.09427 \$19,696 154,067 \$0.11226 \$17,295 (\$2,401) \$0.01799 19.1%											
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42 SYSTEM TOTAL w/BTS 9,142,019 \$0.43217 \$3,950,935 8,279,067 \$0.47735 \$3,951,995 \$1,060 \$0.04517 10.59 43 44 EOR Revenues 208,941 \$0.09427 \$19,696 154,067 \$0.11226 \$17,295 (\$2,401) \$0.01799 19.19											
43 44 EOR Revenues 208,941 \$0.09427 \$19,696 154,067 \$0.11226 \$17,295 (\$2,401) \$0.01799 19.19	41		2,532	\$0.36798	\$340,120	2,532	\$0.49936	\$461,557	\$121,437	\$0.13138	35.7%
44 EOR Revenues 208,941 \$0.09427 \$19,696 154,067 \$0.11226 \$17,295 (\$2,401) \$0.01799 19.19		SYSTEM TOTAL w/BTS	9,142,019	\$0.43217	\$3,950,935	8,279,067	\$0.47735	\$3,951,995	\$1,060	\$0.04517	10.5%
	43										
45 Total Throughout w/EOD Mth/v/ 0.250.060 9.422.122	44	EOR Revenues		\$0.09427	\$19,696		\$0.11226	\$17,295	(\$2,401)	\$0.01799	19.1%
43 Total Introdynput wr.Cort With yr	45	Total Throughput w/EOR Mth/yr	9,350,960			8,433,133					

TABLE 1

These rates are for Natural Gas Transportation Senice from "Citygate to Meter." The Backbone Transportation Senice (BTS) rate is for senice from Receipt Point to Citygate.
 These Transmission Level Senice (TLS) amounts represent the average transmission rate, see Table 7 for detailed list of TLS rates.
 BTS charge (\$/dth/day) is proposed as a separate rate. Core will pay through procurement rate, noncore as a separate charge. Charge is for both core and noncore customers 4) Unbundled Storage costs are not part of the Core Storage or Load Balancing functions (those are included in transport rates).
 All rates include Franchise Fees & Uncollectible charges.

				TABLE 2						
				tial Transportat						
			Southern	California Gas	Company					
				09/20/22 TCAP 1/1/2024						
			Present Rate			sed Rates		Cha		
		Mar-1-22	Average	s Mar-1-22	Jan-1-24	seu Rales	Jan-1-24	Chai Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	B	C	D	E	ф0003 F	ф0003 G	H	1
1	RESIDENTIAL SERVICE									
2	Customer Charge									
3	Single Family	3,808,652	\$5.00	\$228,519	3,905,273	\$5.00	\$234,316	\$5,797	\$0.00000	0.0%
4	Multi-Family	1,784,011	\$5.00	\$107,041	1,825,058	\$5.00	\$109,503	\$2,463	\$0.00000	0.0%
5	Small Master Meter	121,819	\$5.00	\$7,309	123,305	\$5.00	\$7,398	\$89	\$0.00000	0.0%
6	Submeter Credit-\$/unit/day	141,547	(\$0.28800)	(\$14,879)	128,003	(\$0.33271)	(\$15,545)	(\$665)	(\$0.04471)	15.5%
7	Volumetric Transportation Rate Exclude CSITMA and CAT:									
8	Baseline Rate	1,619,181	\$0.71401	\$1,156,106	1,458,094	\$0.67155	\$979,190	(\$176,917)	(\$0.04245)	-5.9%
9	Non-Baseline Rate	718,079	\$1.12791	\$809,927	719,874	\$1.09732	\$789,929	(\$19,998)	(\$0.03059)	-2.7%
10		2,337,260	\$0.98150	\$2,294,023	2,177,968	\$0.96640	\$2,104,792	(\$189,231)	(\$0.01510)	-1.5%
11	NBL/BL Ratio:									
12	Composite Rate \$/th		\$1.40891			\$1.30365			(\$0.10526)	-7.5%
13	Gas Rate \$/th		\$0.49233			\$0.40188			(\$0.09045)	-18.4%
14	NBL/Composite rate ratio (4) =		1.1500000000			1.1500000000				0.001
15	NBL- BL rate difference \$/th		0.41390			0.42576			\$0.01186	2.9%
16 17	Lana Masta Mata Data (Evaluata Data Addar (a OAT)									
17	Large Master Meter Rate (Excludes Rate Adders for CAT): Customer Charge	49	\$547.28	\$325	53	\$547.28	\$345	\$20	\$0.00	0.0%
10	Baseline Rate	7,787	\$0.44153	\$3,438	5,868	\$0.32757	\$345 \$1,922		(\$0.11396)	-25.8%
20	Non-Baseline Rate	1,306	\$0.44153 \$0.69748	\$3,430 \$911	2,147	\$0.53524	\$1,922 \$1,149	(\$1,516) \$239	(\$0.11396) (\$0.16223)	-23.3%
20	Non-Dasenne Rale	9,093	\$0.51397	\$4,673	8,015	\$0.42623	\$3,416	(\$1,257)	(\$0.08773)	-17.1%
21		3,030	φ0.01001	\$ 1 ,075	0,013	\$0. 4 2020	40,410	(\$1,237)	(\$0.00113)	-17.170
23	Residential Rates Include CSITMA, CARB and GHG Excludes CAT:									
24	CSITMA Adder to Volumetric Rate	1,686,545	\$0.00032	\$540	1,507,908	\$0.00034	\$506	(\$33)	\$0.00002	4.9%
25	CARB Adder to Volumetric Rate	2,346,353	\$0.00143	\$3,363	2,185,983	\$0.00160	\$3,499	\$136	• • • • • • • •	
26	GHG End User Adder to Volumetric Rate	2,346,353	\$0.10911	\$255,999	2,185,983	\$0.11723	\$256,267	\$267		
27	Residential:									
28	Customer Charge		\$5.00			\$5.00			\$0.00000	0.0%
29	Baseline \$/therm		\$0.82487			\$0.79072			(\$0.03414)	-4.1%
30	Non-Baseline \$/therm		\$1.23877			\$1.21648			(\$0.02228)	-1.8%
31	Average NonCARE Rate \$/therm		\$1.09236			\$1.08557			(\$0.00679)	-0.6%
32	Large Master Meter:									
33	Customer Charge		\$547.28			\$547.28			\$0.00	0.0%
34	BaseLine Rate		\$0.55239			\$0.44674			(\$0.10565)	-19.1%
35	Non-Baseline Rate		\$0.80834			\$0.65441			(\$0.15392)	-19.0%
36	Average NonCARE Rate \$/therm		\$0.62483			\$0.54540			(\$0.07943)	-12.7%
37	Residential Rates Include CSITMA & CAT:									
38	CAT Adder to Volumetric Rate	27,389	\$0.00000	\$0	23,460	\$0.00000	\$0	\$0	\$0.00000	
39	Residential:									
40	Customer Charge		\$5.00			\$5.00			\$0.00000	0.0%
41	BaseLine Rate		\$0.82487			\$0.79072			(\$0.03414)	-4.1%
42	Non-Baseline Rate		\$1.23877			\$1.21648			(\$0.02228)	-1.8%
43 44	Large Master Meter:		\$547.28			\$547.28			£0.00000	0.0%
44 45	Customer Charge BaseLine Rate		\$547.28 \$0.55239			\$547.28 \$0.44674			\$0.00000 (\$0.10565)	
45 46	BaseLine Rate		\$0.55239 \$0.80834			\$0.44674 \$0.65441			(\$0.10565) (\$0.15392)	-19.1% -19.0%
40	Other Adjustments:		φ 0.000 34			φ0.00441			(\$0.15592)	-19.0%
47	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
49	California Climate Credit - April Bill		(\$44.17)			(\$44.17)			(\$0.00002)	4.570
50	TOTAL RESIDENTIAL	2,346,353	\$1.09046	\$2,558,598	2,185,983	\$1.08349	\$2,368,480	(\$190,118)	(\$0.00697)	-0.6%
50		2,340,333	\$1.09046	¢∠,000,098	2,100,903	\$1.00349	<i>ψ</i> 2,300,460	(\$190,116)	(\$0.00097)	-0.0%

See footnotes, Table 1.

				TABLE 2						
			Resident	ial Transportat	ion Rates					
			Southern	California Gas	Company					
				07/10/23						
			D (D)	TCAP 1/1/2024	D	1.0.		0		
		Mar-1-22	Present Rates	Mar-1-22	Jan-1-24	sed Rates	Jan-1-24		nges Rate	% Rate
		Volumes	Average Rate	Revenue	Volumes	Rate	Revenue	Revenue Change	Change	% Rate change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	B	C	D	E	F	G	H	/0
1	RESIDENTIAL SERVICE		0			L .		0		
2	Customer Charge									
3	Single Family	3,808,652	\$5.00	\$228,519	3,905,273	\$5.00	\$234,316	\$5,797	\$0.00000	0.0%
4	Multi-Family	1,784,011	\$5.00	\$107,041	1,825,058	\$5.00	\$109,503	\$2,463	\$0,00000	0.0%
5	Small Master Meter	121,819	\$5.00	\$7,309	123,305	\$5.00	\$7,398	\$89	\$0.00000	0.0%
6	Submeter Credit-\$/unit/day	141,547	(\$0.28800)	(\$14,879)	128,003	(\$0.33271)	(\$15,545)	(\$665)	(\$0.04471)	15.5%
7	Volumetric Transportation Rate Exclude CSITMA and CAT:	0.0.000.000	(10.000)	(*******		(*********		(11-1-)		
8	Baseline Rate	1,619,181	\$0.71401	\$1,156,106	1,458,094	\$0.67214	\$980,043	(\$176,063)	(\$0.04187)	-5.9%
9	Non-Baseline Rate	718,079	\$1,12791	\$809,927	719,874	\$1.09796	\$790,396	(\$19,531)	(\$0.02994)	-2.7%
10		2,337,260	\$0.98150	\$2,294,023	2,177,968	\$0.96701	\$2,106,112	(\$187,910)	(\$0.01449)	-1.5%
11	NBL/BL Ratio:									
12	Composite Rate \$/th		\$1.40891			\$1.30407			(\$0.10484)	-7.4%
13	Gas Rate \$/th		\$0.49233			\$0.40172			(\$0.09062)	-18.4%
14	NBL/Composite rate ratio (4) =		1.1500000000			1.15000000001				
15	NBL- BL rate difference \$/th		0.41390			0.42582			\$0.01192	2.9%
16										
17	Large Master Meter Rate (Excludes Rate Adders for CAT):									
18	Customer Charge	49	\$547.28	\$325	53	\$547.28	\$345	\$20	\$0.00	0.0%
19	Baseline Rate	7,787	\$0,44153	\$3,438	5,868	\$0.32801	\$1,925	(\$1,514)	(\$0.11352)	-25.7%
20	Non-Baseline Rate	1,306	\$0.69748	\$911	2,147	\$0.53581	\$1,150	\$240	(\$0.16167)	-23.2%
21		9,093	\$0.51397	\$4,673	8,015	\$0.42670	\$3,420	(\$1,253)	(\$0.08726)	-17.0%
22								(*******	(
23	Residential Rates Include CSITMA, CARB and GHG Excludes CAT:									
24	CSITMA Adder to Volumetric Rate	1,686,545	\$0.00032	\$540	1,507,908	\$0.00034	\$506	(\$33)	\$0.00002	4.9%
25	CARB Adder to Volumetric Rate	2,346,353	\$0.00143	\$3,363	2,185,983	\$0.00160	\$3,499	\$136		
26	GHG End User Adder to Volumetric Rate	2,346,353	\$0,10911	\$255,999	2,185,983	\$0.11723	\$256,267	\$267		
27	Residential:									
28	Customer Charge		\$5.00			\$5.00			\$0.00000	0.0%
29	Baseline \$/therm		\$0,82487			\$0,79131			(\$0.03356)	-4.1%
30	Non-Baseline \$/therm		\$1.23877			\$1.21713			(\$0.02163)	-1.7%
31	Average NonCARE Rate \$/therm		\$1.09236			\$1.08618			(\$0.00618)	-0.6%
32	Large Master Meter:									
33	Customer Charge		\$547.28			\$547.28			\$0.00	0.0%
34	BaseLine Rate		\$0.55239			\$0.44717			(\$0.10521)	-19.0%
35	Non-Baseline Rate		\$0,80834			\$0.65498			(\$0.15336)	-19.0%
36	Average NonCARE Rate \$/therm		\$0.62483			\$0.54587			(\$0.07895)	-12.6%
37	Residential Rates Include CSITMA & CAT:		100 00 00 00 00 00 00 00 00 00 00 00 00			601000610			(
38	CAT Adder to Volumetric Rate	27,389	\$0,00000	\$0	23,460	\$0.00000	\$0	\$0	\$0,00000	
39	Residential:					. And a state of the				
40	Customer Charge		\$5.00			\$5.00			\$0.00000	0.0%
41	BaseLine Rate		\$0.82487			\$0,79131			(\$0.03356)	-4.1%
42	Non-Baseline Rate		\$1.23877			\$1.21713			(\$0.02163)	-1.7%
43	Large Master Meter:	6								
44	Customer Charge		\$547.28			\$547.28			\$0.00000	0.0%
45	BaseLine Rate		\$0.55239			\$0.44717			(\$0.10521)	-19.0%
46	Non-Baseline Rate		\$0.80834			\$0.65498			(\$0.15336)	-19.0%
47	Other Adjustments:								(11.11.100)	
48	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
49	California Climate Credit - April Bill		(\$44.17)			(\$44.17)			(***********	
10000	TOTAL RESIDENTIAL	2.346.353	\$1.09046	\$2,558,598	2,185,983	\$1.08409	\$2,369,804	(\$188,794)	(\$0.00637)	-0.6%

See footnotes, Table 1.

				California Gas						
				09/20/22						
				TCAP 1/1/2024	Ļ					
			Present Rates	s	Propos	sed Rates		Cha	inges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	Н	I
1 2	CORE COMMERCIAL & INDUSTRIAL									
3	Customer Charge 1	141,378	\$15.00	\$25,448	141,954	\$15.00	\$25,552	\$104	\$0.00	0.0%
4	Customer Charge 2	62,136	\$15.00	\$11,185	61,060	\$15.00	\$10,991	(\$194)	\$0.00	0.0%
5	Volumetric Transportation Rate Exclude CSITMA & CAT:	02,100	\$10.00	¢11,100	01,000	¢10.00	\$10,001	(\$101)	\$0.00	0.070
6	Tier 1 = 250th/mo	202.399	\$0.95104	\$192,490	182,276	\$1.04068	\$189.690	(\$2,799)	\$0.08964	9.4%
7	Tier 2 = next 4167 th/mo	449,431	\$0.49692	\$223,331	386,664	\$0.54449	\$210,535	(\$12,796)	\$0.04757	9.6%
8	Tier 3 = over 4167 th/mo	340,876	\$0.19243	\$65,595	311,380	\$0.21180	\$65,950	\$355	\$0.01937	10.1%
9		992,706	\$0.52186	\$518,049	880,320	\$0.57106	\$502,718	(\$15,331)	\$0.04921	9.4%
10										
11	Volumetric Transportation Rate Include CSITMA & GHG, Exclude C	AT:								
12	CSITMA Adder to Volumetric Rate	984,422	\$0.00032	\$315	871,854	\$0.00034	\$293	(\$22)	\$0.00002	4.9%
13	GHG Adder to Volumetric Rate	992,706	\$0.10911	\$108,309	880,320	\$0.11723	\$103,201			
14	Tier 1 = 250th/mo		\$1.06047			\$1.15825			\$0.09778	9.2%
15	Tier 2 = next 4167 th/mo		\$0.60634			\$0.66206			\$0.05571	9.2%
16	Tier 3 = over 4167 th/mo		\$0.30186			\$0.32937			\$0.02751	9.1%
17			\$0.63128			\$0.68863			\$0.05735	
18	Velometric Transmission Data Justicula COLTMA & CAT								\$0.00000	
19 20	Volumetric Transportation Rate Include CSITMA & CAT: CAT Adder to Volumetric Rate	139,308	\$0,0000	\$0	98,391	£0.00000	\$0	¢0	\$0,0000	
20 21	Tier 1 = 250th/mo	139,308	\$0.00000 \$1.06047	\$0	98,391	\$0.00000 \$1.15825	\$0	\$0	\$0.00000 \$0.09778	9.2%
21	Tier 2 = next 4167 th/mo		\$0.60634			\$0.66206			\$0.09778	9.2%
22	Tier 3 = over 4167 th/mo		\$0.30186			\$0.32937			\$0.03371	9.1%
23			\$0.63128			\$0.68863			\$0.02731	9.1%
25	Other Adjustments:		φ0.00120			φ0.00000			φ0.00700	5.170
26	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
27	GHG Fee Credit \$/th	1	(\$0.10911))		(\$0.1172	3)		(\$0.00002)	1.070
28	TOTAL CORE C&I	992,706	\$0.63128	\$626,673	880,320	\$0.68863	\$606,212	(\$20,461)	\$0.05735	9.1%
29					I					
30	NATURAL GAS VEHICLES (a sempra-wide rate)									
31	Customer Charge, P-1	263	\$13.00	\$41	221	\$13.00	\$34	(\$7)	\$0.00000	0.0%
32	Customer Charge, P-2A	115	\$65.00	\$90	162	\$65.00	\$127	\$37	\$0.00000	0.0%
33	Uncompressed Rate Exclude CSITMA, GHG & CAT	178,769	\$0.22599	\$40,400	167,083	\$0.27222	\$45,483	\$5,082	\$0.04622	20.5%
34	Total Uncompressed NGV	178,769	\$0.22672	\$40,531	167,083	\$0.27318	\$45,644	\$5,113	\$0.04646	20.5%
35	Compressed Rate Adder	2,833	\$1.04173	\$2,951	10,232	\$0.91453	\$9,357	\$6,406	(\$0.12720)	-12.2%
36	Low Carbon Fuel Standard (LCFS) Credit		(\$1.22702)			(\$0.39682)			\$0.83020	
37	Uncompressed Rate Include CSITMA, CARB and GHG Exclude CAT									
38	CSITMA Adder to Volumetric Rate	178,769	\$0.00032	\$57	167,071	\$0.00034	\$56	(\$1)	\$0.00002	4.9%
39	CARB Adder to Volumetric Rate	178,769	\$0.00143	\$256	167,083	\$0.00160	\$267			
40	GHG End User Adder to Volumetric Rate	178,769	\$0.10911	\$19,505	167,083	\$0.11723	\$19,587			
41	Uncompressed Rate \$/therm		\$0.33685			\$0.39138			\$0.05453	16.2%
42	Combined transport & compressor adder & LCFS Credit \$/th		\$0.15156			\$0.90910			\$0.75754	499.8%
43 44	Other Adjustments:		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
44 45	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
46	TOTAL NGV SERVICE	178,769	\$0.35409	\$63,300	167,083	\$0.44835	\$74,912	\$11,611	\$0.09426	26.6%
47										
48	RESIDENTIAL NATURAL GAS VEHICLES (optional rate)				1					
49	Customer Charge	216	\$10.00	\$26	195	\$10.00	\$23	(\$2)	\$0.00000	0.0%
50	Uncompressed Rate Exclude CSITMA & CAT	166	\$0.38664	\$64	151	\$0.38725	\$58	(\$6)	\$0.00061	0.2%
51		166	\$0.54240	\$90	151	\$0.54239	\$82	(\$8)	(\$0.00001)	0.0%
52	Uncompressed Rate Include CSITMA, Exclude CAT				1				. /	
53	CSITMA Adder to Volumetric Rate	166	\$0.00032	\$0	151	\$0.00034	\$0		\$0.00002	4.9%
54	CARB Adder to Volumetric Rate	166	\$0.00143	\$0	151	\$0.00160	\$0			
55	GHG End User Adder to Volumetric Rate	166	\$0.10911	\$18	151	\$0.11723	\$18			
56	Uncompressed Rate \$/therm		\$0.49750			\$0.50642			\$0.00892	1.8%
57					1					
58	Uncompressed Rate Include CSITMA & CAT									
59	CAT Adder to Volumetric Rate	0	\$0.00000	\$0	0	\$0.00000	\$0	\$0	\$0.00000	
60	Uncompressed Rate		\$0.49750			\$0.50642		\$0	\$0.00892	1.8%
61	Other Adjustments:									
62	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
		1			1			1		
63 64	TOTAL RESIDENTIAL NATURAL GAS VEHICLES	166	\$0.65326	\$109	151	\$0.66156	\$100	(\$9)	\$0.00830	1.3%

TABLE 3 Core Nonresidential Transportation Rates

		Core Nonresi	TABLE 3 dential Transp	ortation Rates					
			California Gas						
			07/10/23 TCAP 1/1/2024						
		Present Rates	TCAP 1/1/2024	Propos	ed Rates		Cha	nges	
	Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Ra
	Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	chan
	Mth	\$/th B	\$000's C	Mth D	\$/th E	\$000's F	\$000's G	\$/th H	%
CORE COMMERCIAL & INDUSTRIAL									
Customer Charge 1	141,378	\$15.00	\$25,448	141,954	\$15.00	\$25,552	\$104	\$0.00	0.09
Customer Charge 2	62,136	\$15.00	\$11,185	61,060	\$15.00	\$10,991	(\$194)	\$0.00	0.09
Volumetric Transportation Rate Exclude CSITMA & CAT:									
Tier 1 = 250th/mo	202,399	\$0.95104	\$192,490	182,276	\$1.04131	\$189,806	(\$2,684)	\$0.09027	9.59
Tier 2 = next 4167 th/mo Tier 3 = over 4167 th/mo	449,431	\$0.49692	\$223,331	386,664 311,380	\$0.54480	\$210,653 \$65,977	(\$12,678)	\$0.04788 \$0.01945	9.6
Tier 5 – over 4167 th/mo	340,876 992,706	\$0.19243 \$0.52186	\$65,595 \$518,049	880,320	\$0.21189 \$0.57136	\$502,978	\$382 (\$15,070)	\$0.04950	10.1
	002,100	00.02100	4010,040	000,020	Q0.07 100	0002,070	(010,010)	00.04000	0.0
Volumetric Transportation Rate Include CSITMA & GHG, Exclude C	AT:								
CSITMA Adder to Volumetric Rate	984,422	\$0.00032	\$315	871,854	\$0.00034	\$293	(\$22)	\$0.00002	4.9
GHG Adder to Volumetric Rate	992,706	\$0.10911	\$108,309	880,320	\$0.11723	\$103,201		60 00011	-
Tier 1 = 250th/mo		\$1.06047 \$0.60634			\$1.15888 \$0.66236			\$0.09841 \$0.05602	9.3 9.2
Tier 2 = next 4167 th/mo Tier 3 = over 4167 th/mo		\$0.80634 \$0.30186			\$0.32945			\$0.05602	9.2
ner 5 – over 4167 tilfnio		\$0.63128			\$0.68893			\$0.05765	3.1
		40.00 ILU			\$5.30033			\$0.00000	
Volumetric Transportation Rate Include CSITMA & CAT:									
CAT Adder to Volumetric Rate	139,308	\$0.00000	\$0	98,391	\$0.00000	\$0	\$0	\$0.00000	
Tier 1 = 250th/mo		\$1.06047			\$1.15888			\$0.09841	9.3
Tier 2 = next 4167 th/mo		\$0.60634			\$0.66236			\$0.05602	9.2
Tier 3 = over 4167 th/mo		\$0.30186			\$0.32945			\$0.02760	9.1
Other Adjustments:		\$0.63128			\$0.68893			\$0.05765	9.1
TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9
GHG Fee Credit \$/th		(\$0.10911)			(\$0.1172	23)		A	
TOTAL CORE C&I	992,706	\$0.63128	\$626,673	880,320	\$0.68892	\$606,473	(\$20,201)	\$0.05765	9.1
NATURAL CAR VEHICLER (a servers wide rate)									
NATURAL GAS VEHICLES (a sempra-wide rate) Customer Charge, P-1	263	\$13.00	\$41	221	\$13.00	\$34	(\$7)	\$0.00000	0.0
Customer Charge, P-2A	115	\$65.00	\$90	162	\$65.00	\$127	\$37	\$0.00000	0.0
Uncompressed Rate Exclude CSITMA, GHG & CAT	178,769	\$0.22599	\$40,400	167,083	\$0.27333	\$45,669	\$5,268	\$0.04734	20.9
Total Uncompressed NGV	178,769	\$0.22672	\$40,531	167,083	\$0.27429	\$45,830	\$5,299	\$0.04757	21.
Compressed Rate Adder	2,833	\$1.04173	\$2,951	10,232	\$0.91453	\$9,357	\$6,406	(\$0.12720)	-12.
Low Carbon Fuel Standard (LCFS) Credit		(\$1.22702)			(\$0.39682)			\$0.83020	
Uncompressed Rate Include CSITMA, CARB and GHG Exclude CAT									
CSITMA Adder to Volumetric Rate	178,769	\$0.00032	\$57	167,071	\$0.00034	\$56	(\$1)	\$0.00002	4.9
CARB Adder to Volumetric Rate	178,769	\$0.00143	\$256	167,083	\$0.00160	\$267			
GHG End User Adder to Volumetric Rate	178,769	\$0.10911	\$19,505	167,083	\$0.11723	\$19,587		60 05505	40
Uncompressed Rate \$/therm Combined transport & compressor adder & LCFS Credit \$/th		\$0.33685 \$0.15156			\$0.39250 \$0.91021			\$0.05565 \$0.75865	16. 500
Other Adjustments:		00.13130			W0.31021			00.10000	500
TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9
TOTAL NGV SERVICE	178,769	\$0.35409	\$63,300	167,083	\$0.44946	\$75,098	\$11,797	\$0.09537	26.
RESIDENTIAL NATURAL GAS VEHICLES (optional rate)									
Customer Charge	216	\$10.00	\$26	195	\$10.00	\$23	(\$2)	\$0.00000	0.0
Uncompressed Rate Exclude CSITMA & CAT	166	\$0.38664	\$64	151	\$0.38747	\$58	(\$6)	\$0.00082	0.2
	166	\$0.54240	\$90	151	\$0.54260	\$82	(\$8)	\$0.00021	0.0
Uncompressed Rate Include CSITMA, Exclude CAT	100								
CSITMA Adder to Volumetric Rate	166	\$0.00032	\$0 \$0	151	\$0.00034	\$0 \$0		\$0.00002	4.9
CARB Adder to Volumetric Rate GHG End User Adder to Volumetric Rate	166 166	\$0.00143 \$0.10911	\$0 \$18	151 151	\$0.00160 \$0.11723	\$0 \$18			
Uncompressed Rate \$/therm	100	\$0.49750	010	131	\$0.50664	010		\$0.00913	1.8
Uncompressed Rate Include CSITMA & CAT									
CAT Adder to Volumetric Rate	0	\$0.00000	\$0	0	\$0.00000	\$0	\$0	\$0.00000	10000
Uncompressed Rate		\$0.49750			\$0.50664		\$0	\$0.00913	1.8
Other Adjustments: TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9
		(00.00032)			(\$0.00034)			(30.00002)	4.5

				TABLE 4						
		Cor	re Nonresidential	•	•	ued)				
			Southern C	alifornia Gas	Company					
				09/20/22						
				CAP 1/1/2024						
			Present Rates			ed Rates			inges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	Н	1
1										
2	NON-RESIDENTIAL GAS A/C									
3			*							
4	Customer Charge	8	\$150	\$14	4	\$150	\$7	(\$7)	\$0.00000	0.0%
5	Volumetric Rate	416	\$0.23531	\$98	140	\$0.37914	\$53	(\$45)	\$0.14384	61.1%
6		416	\$0.26990	\$112	140	\$0.43042	\$60	(\$52)	\$0.16053	59.5%
7	Volumetric Rates Include CSITMA, Exclude CAT									
8	CSITMA Adder to Volumetric Rate	416	\$0.00032	\$0	140	\$0.00034	\$0	(\$0)	\$0.00002	4.9%
9	Volumetric		\$0.23563			\$0.37948			\$0.14385	61.1%
10	Volumetric Rates Include CSITMA & CAT									
11	CAT Adder to Volumetric Rate	0	\$0.00000	\$0	0	\$0.00000	\$0	\$0	\$0.00000	
12	Gas A/C Rate		\$0.23563			\$0.37948		\$0	\$0.14385	61.1%
13	Other Adjustments:									
14	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
15				****		** *****				
10	TOTAL AVO GENTIGE	410	QU.LI VLL	¥114	ÎŤV	0.40070	\$00	(452)	ww.10004	JJ. 7/0
17										
18	GAS ENGINES	744	6 50	\$407	050	6 50	6004	(****)	¢0.00000	0.001
18 19	Customer Charge	711	\$50	\$427	652	\$50	\$391	(\$35)	\$0.00000	0.0%
18 19 20		22,302	\$0.24003	\$5,353	19,830	\$0.24159	\$4,791	(\$562)	\$0.00156	0.7%
18 19 20 21	Customer Charge Volumetric Exclude CSITMA & CAT			•		• • • •	• • •	· · · /		
18 19 20 21 22	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT	22,302 22,302	\$0.24003 \$0.25917	\$5,353 \$5,780	19,830 19,830	\$0.24159 \$0.26133	\$4,791 \$5,182	(\$562) (\$598)	\$0.00156 \$0.00216	0.7%
18 19 20 21 22 23	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate	22,302	\$0.24003 \$0.25917 \$0.00032	\$5,353	19,830	\$0.24159 \$0.26133 \$0.00034	\$4,791	(\$562)	\$0.00156 \$0.00216 \$0.00002	0.7%
18 19 20 21 22 23 24	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric	22,302 22,302	\$0.24003 \$0.25917	\$5,353 \$5,780	19,830 19,830	\$0.24159 \$0.26133	\$4,791 \$5,182	(\$562) (\$598)	\$0.00156 \$0.00216	0.7%
18 19 20 21 22 23 24 25	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT	22,302 22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035	\$5,353 \$5,780 \$7	19,830 19,830 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193	\$4,791 \$5,182 \$7	(\$562) (\$598) (\$0)	\$0.00156 \$0.00216 \$0.00002 \$0.00158	0.7%
18 19 20 21 22 23 24 25 26	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate	22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000	\$5,353 \$5,780	19,830 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000	\$4,791 \$5,182	(\$562) (\$598) (\$0) \$0	\$0.00156 \$0.00216 \$0.00002 \$0.00158 \$0.00000	0.7% 0.8% 4.9%
18 19 20 21 22 23 24 25 26 27	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate	22,302 22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035	\$5,353 \$5,780 \$7	19,830 19,830 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193	\$4,791 \$5,182 \$7	(\$562) (\$598) (\$0)	\$0.00156 \$0.00216 \$0.00002 \$0.00158	0.7%
18 19 20 21 22 23 24 25 26 27 28	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments	22,302 22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000 \$0.24035	\$5,353 \$5,780 \$7	19,830 19,830 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000 \$0.24193	\$4,791 \$5,182 \$7	(\$562) (\$598) (\$0) \$0	\$0.00156 \$0.00216 \$0.00002 \$0.00158 \$0.00000 \$0.00158	0.7% 0.8% 4.9%
18 19 20 21 22 23 24 25 26 27 28 29	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate	22,302 22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000	\$5,353 \$5,780 \$7	19,830 19,830 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000	\$4,791 \$5,182 \$7	(\$562) (\$598) (\$0) \$0	\$0.00156 \$0.00216 \$0.00002 \$0.00158 \$0.00000	0.7% 0.8% 4.9%
18 19 20 21 22 23 24 25 26 27 28 29 30	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000 \$0.24035 (\$0.00032)	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000 \$0.24193 (\$0.00000 \$0.24193 (\$0.00034)	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002)	0.7% 0.8% 4.9% 0.7% 4.9%
18 19 20 21 22 23 24 25 26 27 28 29 30 31	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments	22,302 22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000 \$0.24035	\$5,353 \$5,780 \$7	19,830 19,830 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000 \$0.24193	\$4,791 \$5,182 \$7	(\$562) (\$598) (\$0) \$0	\$0.00156 \$0.00216 \$0.00002 \$0.00158 \$0.00000 \$0.00158	0.7% 0.8% 4.9%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000 \$0.24035 (\$0.00032)	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000 \$0.24193 (\$0.00000 \$0.24193 (\$0.00034)	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002)	0.7% 0.8% 4.9% 0.7% 4.9%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate)	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.0000 \$0.24035 (\$0.00032) \$0.25948	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.0000 \$0.24193 (\$0.00034) \$0.26166	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.00218	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.00000 \$0.24035 (\$0.00032)	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.00000 \$0.24193 (\$0.00000 \$0.24193 (\$0.00034)	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002)	0.7% 0.8% 4.9% 0.7% 4.9%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate) Street & Outdoor Lighting Base Rate	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.0000 \$0.24035 (\$0.00032) \$0.25948	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.0000 \$0.24193 (\$0.00034) \$0.26166	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.00218	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate) Street & Outdoor Lighting Base Rate CORE ELECTRIC GENERATION (EG) (optional rate)	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.0000 \$0.24035 (\$0.00032) \$0.25948 \$0.63128	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.0000 \$0.24193 (\$0.00034) \$0.26166 \$0.68863	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.00158 \$0.00218 \$0.00218	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 31 32 33 34 35 36 37	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate) Street & Outdoor Lighting Base Rate CORE ELECTRIC GENERATION (EG) (optional rate) Customer Charge	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.24035 \$0.24035 (\$0.0000 \$0.24035 (\$0.00032) \$0.25948 \$0.63128 \$50.00	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.0000 \$0.24193 (\$0.00034) \$0.26166 \$0.68863 \$50.00	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.000218 \$0.005735 \$0.00	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 56 37 38	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate) Street & Outdoor Lighting Base Rate CORE ELECTRIC GENERATION (EG) (optional rate) Customer Charge Rate excluding CAT	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.0000 \$0.24035 (\$0.00032) \$0.25948 \$0.63128	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.0000 \$0.24193 (\$0.00034) \$0.26166 \$0.68863	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.00158 \$0.00218 \$0.00218	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate) Street & Outdoor Lighting Base Rate CORE ELECTRIC GENERATION (EG) (optional rate) Customer Charge Rate excluding CAT Volumetric Rates Include CAT	22,302 22,302 22,302 0 22,302 22,302	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.24035 \$0.24035 (\$0.00032) \$0.25948 \$0.63128 \$0.63128 \$50.00 \$0.32677	\$5,353 \$5,780 \$7 \$0 \$5,787	19,830 19,830 0 19,830	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.24193 (\$0.00000 \$0.24193 (\$0.00034) \$0.26166 \$0.68863 \$0.68863 \$50.00 \$0.38023	\$4,791 \$5,182 \$7 \$0 \$5,189	(\$562) (\$598) (\$0) \$0 (\$598)	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.00218 \$0.00218 \$0.05735 \$0.00 \$0.05346	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 56 37 38	Customer Charge Volumetric Exclude CSITMA & CAT Volumetric Rates Include CSITMA, Exclude CAT CSITMA Adder to Volumetric Rate Volumetric Volumetric Rates Include CSITMA & CAT CAT Adder to Volumetric Rate Gas Engine Rate Other Adjustments TCA for CSITMA exempt customers TOTAL GAS ENGINES STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate) Street & Outdoor Lighting Base Rate CORE ELECTRIC GENERATION (EG) (optional rate) Customer Charge Rate excluding CAT	22,302 22,302 22,302 0	\$0.24003 \$0.25917 \$0.00032 \$0.24035 \$0.24035 \$0.24035 (\$0.0000 \$0.24035 (\$0.00032) \$0.25948 \$0.63128 \$50.00	\$5,353 \$5,780 \$7 \$0	19,830 19,830 19,830 0	\$0.24159 \$0.26133 \$0.00034 \$0.24193 \$0.0000 \$0.24193 (\$0.00034) \$0.26166 \$0.68863 \$50.00	\$4,791 \$5,182 \$7 \$0	(\$562) (\$598) (\$0) \$0 \$0	\$0.00156 \$0.00216 \$0.0002 \$0.00158 \$0.00000 \$0.00158 (\$0.00002) \$0.000218 \$0.005735 \$0.00	0.7% 0.8% 4.9% 0.7% 4.9% 0.8%

		6		TABLE 4						
		Co	re Nonresidential	I ransportatio		ued)				
			Southern C	07/10/23	Company					
			т	CAP 1/1/2024						
			Present Rates	CAF 1/1/2024		ed Rates	22	Ch	anges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24	eu Nales	Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	B	C	D	E	F	G	H	1
1		~	0	0		L		0		
2										
3	NON-RESIDENTIAL GAS A/C									
4	Customer Charge	8	\$150	\$14	4	\$150	\$7	(\$7)	\$0,00000	0.0%
5	Volumetric Rate	416	\$0.23531	\$98	140	\$0.37929	\$53	(\$45)	\$0.14399	61.2%
6		416	\$0.26990	\$112	140	\$0,43057	\$60	(\$52)	\$0,16067	59.5%
7	Volumetric Rates Include CSITMA, Exclude CAT		00.20000	0112		00.10001		(002)		00.070
8	CSITMA Adder to Volumetric Rate	416	\$0,00032	\$0	140	\$0.00034	\$0	(\$0)	\$0.00002	4.9%
9	Volumetric		\$0.23563			\$0.37963		(00)	\$0.14400	61.1%
10	Volumetric Rates Include CSITMA & CAT									
11	CAT Adder to Volumetric Rate	0	\$0,00000	\$0	0	\$0,00000	\$0	S0	\$0,00000	
12	Gas A/C Rate		\$0.23563			\$0.37963		\$0	\$0,14400	61.1%
13	Other Adjustments:		00.20000			00.01000				01.170
14	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
15			(00.00002)			(00.00001)			(00.00002)	1.070
16	TOTAL A/C SERVICE	416	\$0.27022	\$112	140	\$0.43091	\$61	(\$52)	\$0,16069	59.5%
17	TO THE NO DERVICE		VOILTOLL	****		40110001		14021	40110000	001010
18	GAS ENGINES									
19	Customer Charge	711	\$50	\$427	652	\$50	\$391	(\$35)	\$0.00000	0.0%
20	Volumetric Exclude CSITMA & CAT	22,302	\$0.24003	\$5,353	19,830	\$0,24159	\$4,791	(\$562)	\$0.00156	0.7%
21		22,302	\$0.25917	\$5,780	19,830	\$0.26133	\$5,182	(\$598)	\$0.00216	0.8%
22	Volumetric Rates Include CSITMA, Exclude CAT							(/		
23	CSITMA Adder to Volumetric Rate	22,302	\$0.00032	\$7	19,830	\$0.00034	\$7	(\$0)	\$0.00002	4.9%
24	Volumetric		\$0.24035			\$0.24193		1	\$0.00158	
25	Volumetric Rates Include CSITMA & CAT									
26	CAT Adder to Volumetric Rate	0	\$0,00000	\$0	0	\$0,00000	\$0	\$0	\$0,00000	
27	Gas Engine Rate		\$0.24035			\$0.24193		\$0	\$0.00158	0.7%
28	Other Adjustments									
29	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	4.9%
30			(*******			(********		11	(*******	
31	TOTAL GAS ENGINES	22,302	\$0.25948	\$5,787	19,830	\$0.26166	\$5,189	(\$598)	\$0.00218	0.8%
32										
33	STREET & OUTDOOR LIGHTING (equals average Non-CAT CCI Rate)									
34	Street & Outdoor Lighting Base Rate		\$0.63128			\$0.68893			\$0.05765	9.1%
35										
36	CORE ELECTRIC GENERATION (EG) (optional rate)									
37	Customer Charge		\$50.00			\$50.00			\$0.00	
38	Rate excluding CAT		\$0.32677			\$0.38028			\$0.05351	
39	Volumetric Rates Include CAT									
40	CAT Adder to Volumetric Rate	0	\$0.00000	\$0	0	\$0.00000	\$0	\$0	\$0.00000	
41	Core EG Rate		\$0.32677	1000		\$0.38028		\$0	\$0.05351	

TABLE 5
Noncore Commercial & Industrial Rates
Southern California Gas Company

				TCAP 1/1/2024						
			Present Rates		Proposed	d Rates		Cha	nges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	н	1
1	NonCore Commercial & Industrial Distribution Level									
2	Customer Charge	563	\$350.00	\$2,367	526	\$350.00	\$2,209	(\$157)	\$0.00000	0.0%
3										
4	Volumetric Rates Include CARB Fee, Exclude GHG, and CSITMA									
5	Tier 1 = 250kth/yr	124,403	\$0.29279	\$36,424	118,870	\$0.33458	\$39,772	\$3,348	\$0.04180	14.3%
6	Tier 2 = 250k to 1000k	217,228	\$0.18422	\$40,018	207,858	\$0.20922	\$43,489	\$3,471	\$0.02500	13.6%
7	Tier 3 = 1 to 2 million th/yr	118,763	\$0.11477	\$13,631	114,904	\$0.12903	\$14,826	\$1,196	\$0.01426	12.4%
8	Tier 4 = over 2 million th/yr	459,341	\$0.06514	\$29,923	452,654	\$0.07173	\$32,468	\$2,545	\$0.00658	10.1%
9	Volumetric totals (excl itcs)	919,735	\$0.13047	\$119,995	894,285	\$0.14599	\$130,555	\$10,560	\$0.01552	11.9%
10										
11	Volumetric Rates Include CARB, GHG, CSITMA									
12	CSITMA Adder to Volumetric Rate		\$0.00032	\$293		\$0.00034	\$299	\$6	\$0.00002	4.9%
13	GHG Adder to Volumetric Rate		\$0.10911	\$44,391		\$0.11723	\$46,377	\$1,987	\$0.00813	
14	Tier 1 = 250kth/yr		\$0.40221			\$0.45215			\$0.04994	12.4%
15	Tier 2 = 250k to 1000k		\$0.29365			\$0.32679			\$0.03315	11.3%
16	Tier 3 = 1 to 2 million th/yr		\$0.22420			\$0.24660			\$0.02240	10.0%
17	Tier 4 = over 2 million th/yr		\$0.17457			\$0.18930			\$0.01473	8.4%
18	Other Adjustments:									
19	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.0003	,		(\$0.00002)	4.9%
20	CARB Fee Credit \$/th		(\$0.00143)			(\$0.0016	,		(\$0.00017)	11.7%
21	GHG Fee Credit \$/th		(\$0.10911)			(\$0.1172)			(\$0.00813)	
22	NCCI - DISTRIBUTION LEVEL	919,735	\$0.18162	\$167,045	894,285	\$0.20065	\$179,440	\$12,395	\$0.01903	10.5%
23										
24	NCCI-TRANSMISSION LEVEL Incl CARB & GHG Fee Excl CSITMA (1)	3,661	\$0.03003	\$110	4,219	\$0.05091	\$215	\$105	\$0.02088	69.5%
25	NCCI-TRANSMISSION LEVEL Incl CARB & GHG Fee, SGIP and CSITM		\$0.03035	\$20,884	746,461	\$0.05124	\$39,553	\$18,669	\$0.02090	68.9%
26	NCCI-TRANSMISSION LEVEL (2)	626,080	\$0.03353	\$20,994	750,680	\$0.05298	\$39,768	\$18,774	\$0.01944	58.0%
27										
28	TOTAL NONCORE C&I	1,545,814	\$0.12164	\$188,039	1,644,965	\$0.13326	\$219,207	\$31,169	\$0.01162	9.5%

				TABLE 5						
				mmercial & Ind						
			Southern	California Gas	Company					
				07/10/23						
				TCAP 1/1/2024						
			Present Rates			ed Rates			anges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	S/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	н	1
1	NonCore Commercial & Industrial Distribution Level									
2	Customer Charge	563	\$350.00	\$2,367	526	\$350.00	\$2,209	(\$157)	\$0.00000	0.0%
3										
4	Volumetric Rates Include CARB Fee, Exclude GHG, and CSITMA									
5	Tier 1 = 250kth/yr	124,403	\$0.29279	\$36,424	118,870	\$0.33468	\$39,783	\$3,360	\$0.04189	14.3%
6	Tier 2 = 250k to 1000k	217,228	\$0.18422	\$40,018	207,858	\$0.20928	\$43,500	\$3,482	\$0.02506	13.6%
7	Tier 3 = 1 to 2 million th/yr	118,763	\$0.11477	\$13,631	114,904	\$0.12906	\$14,830	\$1,199	\$0.01429	12.5%
8	Tier 4 = over 2 million th/yr	459,341	\$0.06514	\$29,923	452,654	\$0.07174	\$32,473	\$2,550	\$0.00660	10.1%
9	Volumetric totals (excl itcs)	919,735	\$0.13047	\$119,995	894,285	\$0.14602	\$130,586	\$10,591	\$0.01556	11.9%
10							88.1			
11	Volumetric Rates Include CARB, GHG, CSITMA									
12	CSITMA Adder to Volumetric Rate		\$0.00032	\$293		\$0,00034	\$299	\$6	\$0,00002	4.9%
13	GHG Adder to Volumetric Rate		\$0,10911	\$44,391		\$0,11723	\$46,377	\$1,987	\$0,00813	
14	Tier 1 = 250kth/yr		\$0,40221			\$0.45224			\$0.05003	12.4%
15	Tier 2 = 250k to 1000k		\$0.29365			\$0.32685			\$0.03320	11.3%
16	Tier 3 = 1 to 2 million th/yr		\$0 22420			\$0 24663			\$0 02243	10.0%
17	Tier 4 = over 2 million th/yr		\$0,17457			\$0,18931			\$0.01474	8.4%
18	Other Adjustments:									
19	TCA for CSITMA exempt customers		(\$0.00032)			(\$0.0003	4)		(\$0.00002)	4.9%
20	CARB Fee Credit \$/th		(\$0.00143)			(\$0.0016			(\$0,00017)	
21	GHG Fee Credit \$/th		(\$0.10911)			(\$0.1172			(\$0.00813)	
22	NCCI - DISTRIBUTION LEVEL	919,735	\$0.18162	\$167,045	894,285	\$0.20069	\$179,471	\$12,426	\$0.01906	10.5%
23		010,100	00.10102	\$107,040	004,200	00.20000	0110,471	Q12,420	00.01000	10.070
24	NCCI-TRANSMISSION LEVEL Incl CARB & GHG Fee Excl CSITMA (1)	3.661	\$0.03003	\$110	4.219	\$0,05114	\$216	\$106	\$0.02111	70.3%
25	NCCI-TRANSMISSION LEVEL Incl CARB & GHG Fee, SGIP and CSITM		\$0.03035	\$20,884	746,461	\$0.05148	\$39,727	\$18.843	\$0.02113	69.6%
26	NCCI-TRANSMISSION LEVEL (2)	626.080	\$0.03353	\$20,994	750,680	\$0.05321	\$39,943	\$18,949	\$0.02113	58.7%
27		520,000	40.00000	920,004	750,000	W0.00021	400,0 4 0	w10,343	40.01530	50.170
28	TOTAL NONCORE C&I	1.545.814	\$0,12164	\$188.039	1.644.965	\$0,13338	\$219,414	\$31,375	\$0.01174	9.7%
20		1,545,014	40.12104	\$100,033	1,044,503	40.13330	\$213,414	431,313	30.011/4	3.1 /0

			Southern	California Gas	s Company	-				
			oounem	09/20/22	soompany					
				TCAP 1/1/2024	4					
			Present Rate			ed Rates		Cha	inges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24	eu Nales	Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
							\$000's	\$000's	•	-
		Mth A	\$/th B	\$000's C	Mth D	\$/th E	\$000 s F	\$000's G	\$/th H	%
1		A	Б	C	0	E	г	6		
2	ELECTRIC GENERATION									
2										
3										
4 5	Small EC Distribution Level Convice (a Compte Wide rate) Evolution		E Eas & CEITM							
6	Small EG Distribution Level Service (a Sempra-Wide rate) Exclude Customer Charge	308	\$50.00	<u>4:</u> \$185	309	\$50.00	\$185	\$0	\$0.00000	0.0%
7	Volumetric Rate	308 88.449					• • • •	• •		
			\$0.17290	\$15,292	114,668	\$0.17863	\$20,484	\$5,191	\$0.00574	3.3%
8	Small EG Distribution Level Service	88,449	\$0.17499	\$15,477	114,668	\$0.18025	\$20,669	\$5,192	\$0.00526	3.0%
9		I								
10	Large EG Distribution Level Service (a Sempra-Wide rate) Exclude	1				0 0.00		* *		
11	Customer Charge	30	\$0.00	\$0	25	\$0.00	\$0	\$0	\$0.00000	
12	Volumetric Rate	242,993	\$0.09864	\$23,968	220,612	\$0.11349	\$25,036	\$1,068	\$0.01485	15.1%
13	Large EG Distribution Level Service	242,993	\$0.09864	\$23,968	220,612	\$0.11349	\$25,036	\$1,068	\$0.01485	15.1%
14	· · · · · · · · · · · · · · · · · · ·									
15	EG Distribution excl CARB Fee & CSITMA	331,442	\$0.11901	\$39,445	335,280	\$0.13632	\$45,705	\$6,260	\$0.01731	14.5%
16										
17	Volumetric Rates Include CARB & GHG Fee, Exclude CSITMA									
18	CARB Fee Cost Adder	330,876	\$0.00143	\$474	294,526	\$0.00160	\$471	(\$3)	\$0.00017	11.7%
19	GHG Cost Adder	107,739	\$0.10911	\$11,755	126,300	\$0.11723	\$14,806	\$3,051	\$0.00813	
20	EG-Distribution Tier 1 w/CARB Fee		\$0.28343			\$0.29747			\$0.01403	5.0%
21	EG-Distribution Tier 2 w/CARB Fee		\$0.20917			\$0.23232			\$0.02314	11.1%
22		551, 44 2			333,200	φυ. το το υ	400,303		.02030	10.7 /0
23	CARB Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	11.7%
24	GHG Fee Credit \$/th		(\$0.10911)			(\$0.11723)			(\$0.00813)	
25										
26	EG Transmission Level Service Excl CARB & GHG Fee & CSITMA (1)	2,246,336	\$0.02859	\$64,233	1,800,969	\$0.04931	\$88,803	\$24,570	\$0.02071	72.4%
27	EG Transmission Level CARB Fee	634,285	\$0.00143	\$909	226,362	\$0.00160	\$362	(\$547)	\$0.00017	
28	EG Transmission Level Service - GHG End User Fee	24,990	\$0.10911	\$2,727	19,998	\$0.11723	\$2,344			
29	EG Transmission Level Service - SGIP	2,246,336	\$0.00252	\$5,664	1,800,969	\$0.00129	\$2,324			
30	EG Transmission Level Service Incl CARB & GHG Fee, Exclude CSITMA	x (1)								
31	EG Transmission Level (2)	2,246,336	\$0.03273	\$73,532	1,800,969	\$0.05210	\$93,833	\$20,301	\$0.01937	59.2%
32										
33	TOTAL ELECTRIC GENERATION	2,577,778	\$0.04857	\$125,206	2,136,249	\$0.07247	\$154,816	\$29,610	\$0.02390	49.2%
34										
35	EOR Rates & revenue Exclude CARB Fee & CSITMA:									
36	Distribution Level EOR:									
37	Customer Charge	23	\$500.00	\$138	18	\$500.00	\$108	(\$30)	\$0.00000	0.0%
38	Volumetric Rate Excl CARB & GHG Fee & CSITMA	151,758	\$0.11810	\$17,923	110,501	\$0.13534	\$14,956	(\$2,967)	\$0.01724	14.6%
39				1 1. 1						
40	Volumetric Rates Include CARB & GHG Fee, Exclude CSITMA									
41	CARB Fee		\$0.00143			\$0.00160		1		
42	GHG Fee		\$0.10911			\$0.11723		1		
43	Volumetric Rate Incl CARB Fee & Excl CSITMA		\$0.22864			\$0.25417			\$0.02553	11.2%
	Distribution Level EOR	151,758	\$0.11901	\$18,061	110,501	\$0.13632	\$15,064	(\$2,997)	\$0.02555	
		131,736		\$10,001	110,501	(\$0.00160)	\$15,004	(az,997)	(\$0.00017)	<u>14.5%</u> 11.7%
44	CARB Fee Credit \$/th									
45	CARB Fee Credit \$/th GHG Fee Credit \$/th		(\$0.00143)							11.7 /0
	CARB Fee Credit \$/th GHG Fee Credit \$/th Transmission Level EOR Exclude CARB & GHG Fee & CSITMA	57,184	(\$0.00143) (\$0.10911) \$0.02859	\$1,635	43,565	(\$0.00180) (\$0.11723) \$0.04931	\$2,148	\$513	(\$0.00813) \$0.02071	72.4%

TABLE 6 Noncore Electric Generation Rates and Enhanced Oil Recovery Rates

 Total EOR
 208,941
 \$0.09427
 \$19,696
 194,067
 \$0.111/2
 \$17,7

 1) CSITMA - Noncore C&I D Tariff rate Include CSITMA. Customers exempt, including Constitutionally Exempt, receive Transportation Charge Adjustment (TCA). EG Tariff Rate Exclude CSITMA, since EG customers are exempt.
 2) CARB & GHG Fees - EG-D and NCCI-D rates include CARB & GHG Fees.
 3) EOR customers tariff Include CARB & GHG Fees and Excludes CSITMA; since EOR customers are exempt from CSITMA and get a credit for CARB & GHG Fees.

 3) EOR customers tariff Include CARB & GHG Fees and Excludes CSITMA; since EOR customers are exempt from CSITMA and get a credit for CARB & GHG Fees.
 See footnotes, Table 1.

		Southern	California Gas	Company					
			07/10/23 TCAP 1/1/2024						
	-	Present Rates		1	ed Rates		Cha	inges	
	Mar-1-22	Average	Mar-1-22	Jan-1-24	cu nuics	Jan-1-24	Revenue	Rate	% Rate
	Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	chang
	Mth	S/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
	A	В	С	D	E	F	G	Н	1
1									
2 ELECTRIC GENERATION									
3									
4									
5 Small EG Distribution Level Service (a Sempra-Wide rate) Exclu	1								
6 Customer Charge	308	\$50.00	\$185	309	\$50.00	\$185	\$0	\$0.00000	0.0%
7 Volumetric Rate	88,449	\$0.17290	\$15,292	114,668	\$0.17950	\$20,583	\$5,291	\$0.00660	3.8%
8 Small EG Distribution Level Service	88,449	\$0.17499	\$15,477	114,668	\$0.18112	\$20,768	\$5,291	\$0.00613	3.5%
9									
10 Large EG Distribution Level Service (a Sempra-Wide rate) Exclu			<u>\$0</u>	25	\$0.00	\$0	S0	\$0,00000	
11 Customer Charge	30	\$0.00 \$0.09864		25 220.612			\$1,192		15.6%
12 Volumetric Rate 13 Large EG Distribution Level Service	242,993 242,993	\$0.09864	\$23,968 \$23,968	220,612	\$0.11405 \$0.11405	\$25,160 \$25,160	\$1,192	\$0.01541 \$0.01541	15.6%
14	242,355	\$0.05004	\$23,500	220,012	30.1140 5	\$25,100	\$1,152	30.01541	15.0%
15 EG Distribution excl CARB Fee & CSITMA	331.442	\$0,11901	\$39.445	335,280	\$0,13699	\$45.928	\$6,483	\$0.01797	15.1%
16	331,442	00.11501	\$33,443	555,200	00.15055	043,320	00,400	00.01151	13.17
17 Volumetric Rates Include CARB & GHG Fee, Exclude CSITMA									
8 CARB Fee Cost Adder	330,876	\$0.00143	\$474	294,526	\$0.00160	\$471	(\$3)	\$0.00017	11.79
9 GHG Cost Adder	107,739	\$0,10911	\$11,755	126,300	\$0,11723	\$14,806	\$3.051	\$0.00813	
20 EG-Distribution Tier 1 w/CARB Fee		\$0.28343			\$0.29833			\$0.01490	5.3%
EG-Distribution Tier 2 w/CARB Fee		\$0.20917			\$0.23288			\$0.02370	11.3%
22 Total - EG Distribution Level	331,442	\$0.15591	\$51,675	335,280	\$0.18255	\$61,206	\$9,532	\$0.02664	17.1%
23 CARB Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	11.7%
24 GHG Fee Credit \$/th		(\$0.10911)			(\$0.11723)			(\$0.00813)	
25									
26 EG Transmission Level Service Excl CARB & GHG Fee & CSITMA (1)	2,246,336	\$0.02859	\$64,233	1,800,969	\$0.04954	\$89,223	\$24,990	\$0.02095	73.3%
27 EG Transmission Level CARB Fee	634,285	\$0.00143	\$909	226,362	\$0.00160	\$362	(\$547)	\$0.00017	
28 EG Transmission Level Service - GHG End User Fee	24,990	\$0.10911	\$2,727	19,998	\$0.11723	\$2,344			
29 EG Transmission Level Service - SGIP	2,246,336	\$0.00252	\$5,664	1,800,969	\$0.00129	\$2,324			
30 EG Transmission Level Service Incl CARB & GHG Fee, Exclude CSITI									
31 EG Transmission Level (2)	2,246,336	\$0.03273	\$73,532	1,800,969	\$0.05233	\$94,253	\$20,722	\$0.01960	59.9%
32 33 TOTAL ELECTRIC GENERATION	2.577.778	\$0.04857	\$405 D0C	2 426 240	\$0.07277	\$455 4C0	\$30.253	\$0.02420	49.8%
33 TOTAL ELECTRIC GENERATION	2,511,118	\$0.04857	\$125,206	2,136,249	\$0.07211	\$155,460	\$30,203	\$0.02420	49.8%
55 EOR Rates & revenue Exclude CARB Fee & CSITMA:									
36 Distribution Level EOR:									
37 Customer Charge	23	\$500.00	\$138	18	\$500.00	\$108	(\$30)	\$0,00000	0.0%
38 Volumetric Rate Excl CARB & GHG Fee & CSITMA	151,758	\$0,11810	\$17,923	110,501	\$0.13601	\$15,029	(\$2,894)	\$0.01791	15.2%
39							(
Volumetric Rates Include CARB & GHG Fee, Exclude CSITMA									
11 CARB Fee		\$0.00143			\$0.00160				
42 GHG Fee		\$0.10911			\$0.11723				
3 Volumetric Rate Incl CARB Fee & Excl CSITMA		\$0.22864			\$0.25484			\$0.02620	11.5%
4 Distribution Level EOR	151,758	\$0.11901	\$18,061	110,501	\$0.13699	\$15,137	(\$2,924)	\$0.01797	15.1%
15 CARB Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	11.7%
16 GHG Fee Credit \$/th		(\$0.10911)			(\$0.11723)			(\$0.00813)	
47 Transmission Level EOR Exclude CARB & GHG Fee & CSITMA	57,184	\$0.02859	\$1,635	43,565	\$0.04954	\$2,158	\$523	\$0.02095	73.3%
48 Total EOR	208,941	\$0.09427	\$19,696	154,067	\$0.11226	\$17,295	(\$2,401)	\$0.01799	19.1%

TABLE 6 Noncore Electric Generation Rates and Enhanced Oil Recovery Rates Southern California Gas Company

 Iotal EOR
 206341
 \$0.09427
 \$19,096
 154,007
 30.11226
 \$11,7

 1) CSTIMA - Noncore C&I D Tariff rate Include CSITMA. Customers exempt, including. Constitutionally Exempt, receive Transportation Charge Adjustment (TCA).
 EG Tariff Rate Exclude CSITMA, since EG customers are exempt.
 124,007
 30.11226
 \$11,7

 2) CARB & GHG Fees - EG-D and NCCI-D rates include CARB & GHG Fees.
 3) EOR customers tariff Include CARB & GHG Fees.
 3)
 SICOR customers tariff Include CARB & GHG Fees.
 Sico Customers are exempt from CSITMA and get a credit for CARB & GHG Fees.

 3) EOR customers tariff Include CARB & GHG Fees and Excludes CSITMA; since EOR customers are exempt from CSITMA and get a credit for CARB & GHG Fees.
 See footnotes, Table 1.

TABLE 7 Transmission Level Service Transportation Rates Southern California Gas Company 09/20/22

			Present Rates		Propos	Proposed Rates			nges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		А	в	С	D	E	F	G	н	I
1	Rate Excluding CSITMA & CARB Fee:									
2	Reservation Service Option (RS):									
3	Daily Reservation rate \$/th/day		\$0.01070			\$0.02363			\$0.01293	120.8%
4	Usage Charge for RS \$/th		\$0.01274		_	\$0.01232	_		(\$0.00042)	-3.3%
5	Class Average Volumetric Rate (CA)									
6	Volumetric Rate \$/th		\$0.01584			\$0.03699			\$0.02114	133.5%
7	Usage Charge for CA \$/th		\$0.01274			\$0.01232			(\$0.00042)	-3.3%
8	Class Average Volumetric Rate (CA) \$/th		\$0.02858			\$0.04931			\$0.02073	72.5%
9										
10	115% CA (for NonBypass Volumetric NV) \$/th		\$0.03287			\$0.05670			\$0.02383	72.5%
11	135% CA (for Bypass Volumetric BV) \$/th		\$0.03859			\$0.06657			\$0.02798	72.5%
12	Total Transmission Level Service (NCCI, EOR, EG)	2,872,415	\$0.02859	\$82,135	2,551,649	\$0.04931	\$125,818	\$43,683	\$0.02071	72.4%
13										
14	C&I Rate Including CSITMA & CARB & GHG & SGIP Fee:									
15	CSITMA Adder to Usage Charge	622,419	\$0.00032	\$199	746,461	\$0.00034	\$251	\$51	\$0.00002	
16	CARB Fee Adder	1,260,365	\$0.00143	\$1,807	977,042	\$0.00160	\$1,564		\$0.00017	
17	GHG Fee Adder	32,596	\$0.10911	\$3,556	29,117	\$0.11723	\$3,413		\$0.00813	
18	SGIP Adder	626,080	\$0.00186	\$1,165	750,680	\$0.00031	\$231		(\$0.00155)	
19	Reservation Service Option (RS):									
20	Daily Reservation rate \$/th/day		\$0.01070			\$0.02363		\$0	\$0.01293	120.8%
21	Usage Charge for RS \$/th		\$0.12546			\$0.13180		\$0	\$0.00634	5.1%
22	Class Average Volumetric Rate (CA)									
23	Volumetric Rate \$/th		\$0.01584			\$0.03699		\$0	\$0.02114	133.5%
24	Usage Charge for CA \$/th		\$0.12546			\$0.13180		\$0	\$0.00634	5.1%
25	Class Average Volumetric Rate (CA) \$/th		\$0.14130			\$0.16878		\$0	\$0.02748	19.4%
26										
27	115% CA (for NonBypass Volumetric NV) \$/th		\$0.14559			\$0.17618		\$0	\$0.03059	21.0%
28	135% CA (for Bypass Volumetric BV) \$/th		\$0.15131			\$0.18604		\$0	\$0.03474	23.0%
29	Other Adjustments:									
30	Transportation Charge Adj. (TCA) for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	
31	California Air Resources Board (CARB) Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	
32	GHG Fee Credit		(\$0.10911)			(\$0.11723)			(\$0.00813)	
33	Total Transmission Level Service Include CSITMA & CARB & GHG &	2,872,415	\$0.03094	\$88,862	2,551,649	\$0.05145	\$131,277	\$42,415	\$0.02051	66.3%
34										
35	EG & EOR Rate Including CARB Fee & GHG , excluding CSITMA:									
36	CARB Fee Adder		\$0.00143			\$0.00160			\$0.00017	
37	GHG Fee Adder		\$0.10911			\$0.11723			\$0.00813	
38	SGIP Adder	2,246,336	\$0.00252	\$5,664	1,800,969	\$0.00129	\$2,324			
39	Reservation Service Option (RS):									
40	Daily Reservation rate \$/th/day		\$0.01070			\$0.02363		\$0	\$0.01293	120.8%
41	Usage Charge for RS \$/th		\$0.12580			\$0.13244		\$0	\$0.00664	5.3%
42	Class Average Volumetric Rate (CA)									
43	Volumetric Rate \$/th		\$0.01584			\$0.03699		\$0	\$0.02114	133.5%
44	Usage Charge for CA \$/th		\$0.12580			\$0.13244		\$0	\$0.00664	5.3%
45	Class Average Volumetric Rate (CA) \$/th		\$0.14164			\$0.16943		\$0	\$0.02779	19.6%
46										
47	115% CA (for NonBypass Volumetric NV) \$/th		\$0.14593			\$0.17683		\$0	\$0.03090	21.2%
48	135% CA (for Bypass Volumetric BV) \$/th		\$0.15165			\$0.18669		\$0	\$0.03504	23.1%
49										
50	Other Adjustments:									
51	California Air Resources Board (CARB) Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	11.7%
52	Greenhouse Gas (GHG) Fee Credit \$/th		(\$0.10911)			(\$0.11723)			(\$0.00813)	7.4%
53										
54	Rate Excluding CSITMA, CARB, GHG Fee, & Uncollectibles (application)	ble to Whole	esale & Internation	onal):						
55	Reservation Service Option (RS):									
56	Daily Reservation rate \$/th/day		\$0.01067			\$0.02357			\$0.01289	120.8%
57	Usage Charge for RS \$/th		\$0.01270			\$0.01229			(\$0.00042)	-3.3%
58	Class Average Volumetric Rate (CA)									
59	Volumetric Rate \$/th		\$0.01580			\$0.03688			\$0.02109	133.5%
60	Usage Charge for CA \$/th		\$0.01270			\$0.01229			(\$0.00042)	-3.3%
61	Class Average Volumetric Rate (CA) \$/th		\$0.02850			\$0.04917			\$0.02067	72.5%
62										
	115% CA (for NonBypass Volumetric NV) \$/th		\$0.03278			\$0.05655			\$0.02377	72.5%
63										72.5%
63 64	135% CA (for Bypass Volumetric BV) \$/th		\$0.03848			\$0.06638			\$0.02790	12.5%
	Total Transmission Level Service (WS & Int'l)	359,267	\$0.03848 \$0.02859	\$10,273	402,918	\$0.06638 \$0.04931	\$19,867	\$9,594	\$0.02790 \$0.02071	72.5%
64		359,267		\$10,273	402,918		\$19,867	\$9,594		

TABLE 7 Transmission Level Service Transportation Rates Southern California Gas Company 07/10/23

			Present Rates		Propose	ed Rates		Chi	anges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth	\$/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	Н	1
1	Rate Excluding CSITMA & CARB Fee:									
2	Reservation Service Option (RS):		\$0.01070			\$0.02359			\$0.01289	120.5%
3	Daily Reservation rate \$/th/day Usage Charge for RS \$/th		\$0.01070			\$0.02359			\$0.01289 (\$0.00016)	-1.3%
5	Class Average Volumetric Rate (CA)		50.01214		1	\$0.01256	-		(\$0.00018)	-1.3%
6	Volumetric Rate \$/th		\$0.01584			\$0.03696			\$0.02112	133.3%
7	Usage Charge for CA \$/th		\$0.01274			\$0.01258			(\$0.00016)	-1.3%
8	Class Average Volumetric Rate (CA) \$/th	-	\$0.02858			\$0.04954			\$0.02096	73.3%
9										
10	115% CA (for NonBypass Volumetric NV) \$/th		\$0.03287			\$0.05697			\$0.02410	73.3%
11	135% CA (for Bypass Volumetric BV) \$/th		\$0.03859			\$0.06688			\$0.02829	73.3%
12	Total Transmission Level Service (NCCI, EOR, EG)	2,872,415	\$0.02859	\$82,135	2,551,649	\$0.04954	\$126,413	\$44,278	\$0.02095	73.3%
13										
14	C&I Rate Including CSITMA & CARB & GHG & SGIP Fee:									
15	CSITMA Adder to Usage Charge	622,419	\$0.00032	\$199	746,461	\$0.00034	\$251	\$51	\$0.00002	
16	CARB Fee Adder	1,260,365	\$0.00143	\$1,807	977,042	\$0.00160	\$1,564		\$0.00017	
17	GHG Fee Adder	32,596	\$0.10911	\$3,556	29,117	\$0.11723	\$3,413		\$0.00813	
18	SGIP Adder	626,080	\$0.00186	\$1,165	750,680	\$0.00031	\$231		(\$0.00155)	_
19	Reservation Service Option (RS):									100 10
20	Daily Reservation rate \$/th/day		\$0.01070			\$0.02359		\$0	\$0.01289	120.5%
21	Usage Charge for RS \$/th		\$0.12546			\$0.13206		\$0	\$0.00660	5.3%
22	Class Average Volumetric Rate (CA)									400.004
23	Volumetric Rate \$/th		\$0.01584			\$0.03696		\$0	\$0.02112	133.3%
24	Usage Charge for CA \$/th		\$0.12546 \$0.14130			\$0.13206 \$0.16902		\$0 \$0	\$0.00660	5.3% 19.6%
25	Class Average Volumetric Rate (CA) \$/th		\$0.14130			\$0.16902		\$0	\$0.02771	19.6%
26 27	115% CA (for NonBypass Volumetric NV) \$/th		\$0.14559			\$0.17645		\$0	\$0.03086	21.2%
28	135% CA (for Bypass Volumetric BV) \$/th		\$0.15131			\$0.18635		\$0 \$0	\$0.03006	23.2%
29	Other Adjustments:		00.10101			30.10035		4 0	\$0.05505	ZJ.Z /0
30	Transportation Charge Adj. (TCA) for CSITMA exempt customers		(\$0.00032)			(\$0.00034)			(\$0.00002)	
31	California Air Resources Board (CARB) Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	
32	GHG Fee Credit		(\$0.10911)			(\$0.11723)			(\$0.00813)	
33	Total Transmission Level Service Include CSITMA & CARB & GHG &	2 872 415	\$0.03094	\$88,862	2,551,649	\$0.05168	\$131,873	\$43,010	\$0.02074	67.1%
34		1								
35	EG & EOR Rate Including CARB Fee & GHG , excluding CSITMA:									
36	CARB Fee Adder		\$0.00143			\$0.00160			\$0.00017	
37	GHG Fee Adder		\$0.10911			\$0.11723			\$0.00813	
38	SGIP Adder	2,246,336	\$0.00252	\$5,664	1,800,969	\$0.00129	\$2,324			
39	Reservation Service Option (RS):									
40	Daily Reservation rate \$/th/day		\$0.01070			\$0.02359		\$0	\$0.01289	120.5%
41	Usage Charge for RS \$/th		\$0.12580			\$0.13270		\$0	\$0.00690	5.5%
42	Class Average Volumetric Rate (CA)									
43	Volumetric Rate \$/th		\$0.01584			\$0.03696		\$0	\$0.02112	133.3%
44	Usage Charge for CA \$/th		\$0.12580			\$0.13270		\$0	\$0.00690	5.5%
45	Class Average Volumetric Rate (CA) \$/th		\$0.14164			\$0.16966		\$0	\$0.02802	19.8%
46										
47	115% CA (for NonBypass Volumetric NV) \$/th		\$0.14593			\$0.17709		\$0	\$0.03116	21.4%
48	135% CA (for Bypass Volumetric BV) \$/th	4	\$0.15165			\$0.18700		\$0	\$0.03535	23.3%
49 50	Other Adjustments									
	Other Adjustments:	-	(00.004.00)			(50.00400)			(50.00047)	44 70/
51 52	California Air Resources Board (CARB) Fee Credit \$/th		(\$0.00143)			(\$0.00160)			(\$0.00017)	
52	Greenhouse Gas (GHG) Fee Credit \$/th		(\$0.10911)			(\$0.11723)			(\$0.00813)	7.4%
54	Rate Excluding CSITMA, CARB, GHG Fee, & Uncollectibles (applic	able to Whele	nealo & Intornat	tional):						
55	Reservation Service Option (RS):		coure à miterna	aonaij.						
56	Daily Reservation rate \$/th/day		\$0.01067			\$0.02353			\$0.01286	120.5%
57	Usage Charge for RS \$/th		\$0.01270			\$0.01255			(\$0.00016)	
58	Class Average Volumetric Rate (CA)								(00.000 (0))	
59	Volumetric Rate \$/th		\$0.01580			\$0.03686			\$0.02106	133.3%
60	Usage Charge for CA \$/th		\$0.01270			\$0.01255			(\$0.00016)	-1.3%
61	Class Average Volumetric Rate (CA) \$/th		\$0.02850			\$0.04940			\$0.02090	73.3%
62										
63	115% CA (for NonBypass Volumetric NV) \$/th		\$0.03278			\$0.05681			\$0.02403	73.3%
64	135% CA (for Bypass Volumetric BV) \$/th		\$0.03848			\$0.06669			\$0.02821	73.3%
65	Total Transmission Level Service (WS & Int'l)	359,267	\$0.02859	\$10,273	402,918	\$0.04954	\$19,961	\$9,688	\$0.02095	73.3%
66										

TABLE 8 Backbone Transmission Service and Storage Rates Southern California Gas Company 09/20/22

			Present Rate	5	Propos	ed Rates		Cha	nges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth, Mdth	\$/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	Н	1
1	Backbone Transmission Service BTS									
2	BTS SFV Reservation Charge \$/dth/day	2,532	\$0.36798	\$340,120	2,532	\$0.50099	\$463,062	\$122,942	\$0.13301	36.1%
0	DTO WILV Reservation Onlarge Waterday		\$0.23400			Q0.40075				
4	BTS MFV Volumetric Charge \$/dth		\$0.07360			\$0.10020				
5	BTS Interruptible Volumetric Charge \$/dth		\$0.36798			\$0.50099			\$0.13301	36.1%
6										
7										
8	Storage Costs: (incl. HRSMA)									
9	Core \$000			\$114,299			\$145,970	\$31,671		
10	Load Balancing \$000			\$74,383			\$115,390	\$41,007		
11	Unbundled Storage \$000			\$0			\$0	\$0		
12				\$188,682			\$261,360	\$72,678		

See footnotes, Table 1.

CSITMA - NCCI and EG TLS Tariff rates include CSITMA. Customers exempt (Constitutional Exempt and EG) receive Transportation Charge Adjustment (TCA).
 CARB Fee - TLS NCCI, EOR and EG Tariff rates include CSITMA. TLS NCCI, EOR and EG customers exempt as they pay CARB Fees directly receive credit.
 Wholesale Customers excludes CSITMA and CARB Fee since these customers are exempt.

TABLE 8 Backbone Transmi sion Service and Storage Rates Southern California Gas Company 07/10/23

			Present Rates		Propose	ed Rates		Cha	inges	
		Mar-1-22	Average	Mar-1-22	Jan-1-24		Jan-1-24	Revenue	Rate	% Rate
		Volumes	Rate	Revenue	Volumes	Rate	Revenue	Change	Change	change
		Mth	\$/th	\$000's	Mth, Mdth	\$/th	\$000's	\$000's	\$/th	%
		A	В	С	D	E	F	G	н	1
1	Backbone Transmission Service BTS									
2	BTS SFV Reservation Charge \$/dth/day	2,532	\$0.36798	\$340,120	2,532	\$0.49936	\$461,557	\$121,437	\$0.13138	35.7%
3	BTS MFV Reservation Charge \$/dth/day		\$0.29438			\$0.39949				
4	BTS MFV Volumetric Charge \$/dth		\$0.07360			\$0.09987				
5	BTS Interruptible Volumetric Charge \$/dth		\$0.36798			\$0.49936			\$0.13138	35.7%
6										
7										
8	Storage Costs: (incl. HRSMA)									
9	Core \$000			\$114,299			\$145,825	\$31,525		
10	Load Balancing \$000			\$74,383			\$115,275	\$40,893		
11	Unbundled Storage \$000			\$0			\$0	\$0		
12				\$188,682			\$261,100	\$72,418		

See footnotes, Table 1.

1) CSTIMA - NCCI and EG TLS Tariff rates include CSITMA. Customers exempt (Constitutional Exempt and EG) receive Transportation Charge Adjustment (TCA).
 2) CARB Fee - TLS NCCI, EOR and EG Tariff rates include CSITMA. TLS NCCI, EOR and EG customers exempt as they pay CARB Fees directly receive credit.
 3) Wholesale Customers excludes CSITMA and CARB Fee since these customers are exempt.

APPENDIX B

TABLE 1 Natural Gas Transportation Rate Revenues San Diego Gas & Electric January, 2024 Rates

09/20/22

				TCAP 1/1/2	024					
			At Presen	t Rates		At Proposed	Rates		Changes	
		Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
		А	В	С	D	E	F	G	н	1
1	CORE									
2	Residential	313,234	\$1.47125	\$460,846	270,604	\$1.69468	\$458,588	(\$2,258)	\$0.22343	15.2%
3	Commercial & Industrial	194,777	\$0.61067	\$118,944	178,913	\$0.63368	\$113,373	(\$5,571)	\$0.02301	3.8%
4										
5										
6	NGV - Pre Sempra-Wide	24,129	\$0.26582	\$6,414	23,179	\$0.29564	\$6,852	\$439	\$0.02982	11.2%
7	Sempra-Wide Adjustment	24,129	\$0.08914	\$2,151	23,179	\$0.10684	\$2,476	\$326	\$0.01770	19.9%
8	NGV Post Sempra-Wide	24,129	\$0.35496	\$8,565	23,179	\$0.40248	\$9,329	\$764	\$0.04752	13.4%
9										
10	Total CORE	532,140	\$1.10564	\$588,355	472,696	\$1.22973	\$581,290	(\$7,065)	\$0.12410	11.2%
								1		
12	NONCORE COMMERCIAL & INDUSTRIAL									
13	Distribution Level Service	29,376	\$0.16284	\$4,783	35,337	\$0.19954	\$7,051	\$2,268	\$0.03670	22.5%
14	Transmission Level Service (2)	17,569	\$0.03423	\$601	13,965	\$0.05627	\$786	\$184	\$0.02204	64.4%
15	Total Noncore C&I	46,945	\$0.11471	\$5,385	49,302	\$0.15896	\$7,837	\$2,452	\$0.04425	38.6%
16										
17	NONCORE ELECTRIC GENERATION									
18	Distribution Level Service									
19	Pre Sempra-Wide	68,867	\$0.11988	\$8,256	71,656	\$0.15218	\$10,904	\$2,649	\$0.03230	26.9%
20	Sempra-Wide Adjustment	68,867	\$0.05768	\$3,973	71,656	\$0.05591	\$4,006	\$33	(\$0.00178)	-3.1%
21	Distribution Level post SW	68,867	\$0.17756	\$12,228	71,656	\$0.20808	\$14,910	\$2,682	\$0.03052	17.2%
22	Transmission Level Service (2)	461,363	\$0.02990	\$13,795	225,945	\$0.04952	\$11,188	(\$2,607)	\$0.01962	65.6%
23	Total Electric Generation	530,230	\$0.04908	\$26,023	297,600	\$0.08769	\$26,098	\$75	\$0.03862	78.7%
24										
25	TOTAL NONCORE	577,175	\$0.05442	\$31,408	346,902	\$0.09782	\$33,935	\$2,527	\$0.04341	79.8%
26		4 400 04-	A0 55065	0040 TOC	040 500	A0 75004	A045 005	(64 505)	AD 1010-	04.40
27	SYSTEM TOTAL	1,109,315	\$0.55869	\$619,763	819,598	\$0.75064	\$615,225	(\$4,537)	\$0.19195	34.4%

1) These rates are for Natural Gas Transportation Service from "Citygate to Meter." The Backbone Transportation Service (BTS) rate is for service from Receipt Point to Citygate.

The BTS rate is a SoCalGas tariff and service is purchased from SoCalGas.

2) The average Transmission Level Service (TLS) rate is shown here, see Rate Table 6 for detailed list of TLS rates.

3) All rates include Franchise Fees & Uncollectible charges.

TABLE 1 Natural Gas Transportation Rate Revenues San Diego Gas & Electric January, 2024 Rates 07/05/23

			TCAP 1/1/2	024					
	2	At Proposed	Rates		At Propos	ed Rates	82	Changes	6
	Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
	D	E	F	D	E	F	G	н	I
1 CORE									
2 Residential	313,234	\$1.47125	\$460,846	270,604	\$1.70231	\$460,652	(\$195)	\$0.23106	15.7%
3 Commercial & Industrial	194,777	\$0.61067	\$118,944	178,913	\$0.64276	\$114,998	(\$3,946)	\$0.03209	5.3%
4									
5									
6 NGV - Pre Sempra-Wide	24,129	\$0.26582	\$6,414	23,179	\$0.30430	\$7,053	\$640	\$0.03849	14.5%
7 Sempra-Wide Adjustment	24,129	\$0.08914	\$2,151	23,179	\$0.09931	\$2,302	\$151	\$0.01017	11.4%
8 NGV Post Sempra-Wide	24,129	\$0.35496	\$8,565	23,179	\$0.40362	\$9,355	\$791	\$0.04866	13.7%
9 10 Total CORE	532,140	\$1,10564	\$588,355	472,696	\$1.23759	\$585,005	(\$3,350)	\$0.13195	11.9%
11							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
12 NONCORE COMMERCIAL & INDUSTRIAL									
13 Distribution Level Service	29,376	\$0,16284	\$4,783	35,337	\$0,20335	\$7,186	\$2,402	\$0.04051	24.9%
14 Transmission Level Service (2)	17,569	\$0.03423	\$601	13,965	\$0.05651	\$789	\$188	\$0.02228	65.1%
15 Total Noncore C&I	46,945	\$0,11471	\$5,385	49.302	\$0,16176	\$7,975	\$2,590	\$0.04705	41.0%
16									
7 NONCORE ELECTRIC GENERATION									
8 Distribution Level Service									
9 Pre Sempra-Wide	68.867	\$0,11988	\$8,256	71,656	\$0,15584	\$11,167	\$2,911	\$0.03596	30.0%
20 Sempra-Wide Adjustment	68,867	\$0.05768	\$3,973	71,656	\$0.05294	\$3,794	(\$179)	(\$0.00474)	-8.2%
21 Distribution Level post SW	68,867	\$0.17756	\$12,228	71,656	\$0.20878	\$14,960	\$2,732	\$0.03122	17.6%
22 Transmission Level Service (2)	461,363	\$0.02990	\$13,795	225,945	\$0.04975	\$11,241	(\$2,554)	\$0.01985	66.4%
23 Total Electric Generation	530,230	\$0.04908	\$26,023	297,600	\$0.08804	\$26,201	\$178	\$0.03896	79.4%
24									
25 TOTAL NONCORE	577,175	\$0.05442	\$31,408	346,902	\$0.09852	\$34,176	\$2,768	\$0.04410	81.0%
26									
27 SYSTEM TOTAL	1,109,315	\$0.55869	\$619,763	819,598	\$0.75547	\$619,181	(\$582)	\$0.19678	35.2%

1) These rates are for Natural Gas Transportation Service from "Citygate to Meter." The Backbone Transportation Service (BTS) rate is for service from Receipt Point to Citygate.

The BTS rate is a SoCalGas tariff and service is purchased from SoCalGas. 2) The average Transmission Level Service (TLS) rate is shown here, see Rate Table 6 for detailed list of TLS rates. 3) All rates include Franchise Fees & Uncollectible charges.

TABLE 2 Core Gas Transportation Rates San Diego Gas & Electric January, 2024 Rates 09/20/22

				TCAP 1/1/2	024							
		At	Present Rat	es	At Pr	oposed Rates			Changes			
		Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate		
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change		
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%		
		A	В	С	D	E	F	G	н	1		
1	Residential RATES Schedule GR,GM											
2	Rates Exclude CSITMA & CAT											
3	Minimum Bill/Customer Charge	874,067	\$4.00	\$1,816	909,359	\$4.00	\$1,428	(\$388)				
4												
5	Baseline \$/therm	255,260	\$1.33274	\$340,195	192,242	\$1.52205	\$292,602.802	(\$47,592)	\$0.18931	14.2%		
6	Non-Baseline \$/therm	57,974	\$1.60650	\$93,136	78,361	\$1.81951	\$142,579.178	\$49,443	\$0.21301	13.3%		
7	Average Rate \$/therm	313,234	\$1.38921	\$435,147	270,604	\$1.61347	\$436,610	\$1,463	\$0.22426	16.1%		
8	NBL/BL Ratio											
9	Composite Rate \$/th		\$ 1.83219			\$1.93350			\$0.10131			
10	Gas Rate \$/th		\$ 0.49233			\$0.40402			-\$0.08831	-17.9%		
11	NBL/Composite rate ratio		1.1455335			1.1500000						
12	NBL- BL rate difference \$/th		0.27376			\$0.29745			\$0.02369			
13												
14	Rates Include CSITMA, CARB and GHG Adders, Excludes CAT											
15	CSITMA Adder to Volumetric Rate	246,343	\$0.00162	\$399	203,713	\$0.00183	\$373	(\$26)	\$0.00021	13.0%		
16	CARB Adder to Volumetric Rate	313,234	\$0.00137	\$429	270,604	\$0.00115	\$311	. ,				
17	GHG End User Adder to Volumetric Rate	313,234	\$0.09628	\$30,158	270,604	\$0.10546	\$28,538					
10	Daseline witheriti	, .	\$1.432U1	1		\$1.03049	• .,		Φ U. 19040	13.9%		
19	Non-Baseline \$/therm		\$1.70577			\$1.92795			\$0.22218	13.0%		
20	Average NonCARE Rate \$/therm		\$1.48848			\$1.72191			\$0.23343	15.7%		
21												
	Sub Meter Credit Schedule GS.GT											
23	GS Unit Discount \$/day	5,879	(\$0.58060)	(\$1,246)	5,879	(\$0.82422)	(\$1,768)	(\$523)	(\$0.24362)	42.0%		
24	GT Unit Discount \$/day	26,104	(\$0.60099)	(\$5,726)	26,104	(\$0.85085)	(\$8,107)	(\$2,381)	(\$0.24986)	41.6%		
25			(********)	(***, * = *)		(+)	(+-,)	(4=,000)	(+)			
	Schedule GL-1											
27	LNG Facility Charge, domestic use \$/month	293	\$14.79	\$52	262	\$14.79	\$47		\$0.00000	0.0%		
28	LNG Facility Charge, non-domestic \$/mth/mbtu		\$0.05480			\$0.05480	• ··		\$0.00000	0.0%		
29	LNG Volumetric Surcharge \$/th	76	\$0.16571	\$13	78	\$0.16571	\$13		\$0.00000	0.0%		
30				\$65			\$59					
	Volumetric Rates Include All Adders & CAT			•			• • •					
32	CAT Adder to Volumetric Rate	2,253	\$0.00002	\$0	1,336	\$0.00002	\$0.029	(\$0)	\$0.00000			
33	Baseline \$/therm	_,	\$1.43203	+-	.,	\$1,63051		(+-)	\$0.19849	13.9%		
34	Non-Baseline \$/therm		\$1,70579			\$1.92797			\$0.22218	13.0%		
35	Average Rate \$/therm		\$1,48849			\$1,72193			\$0.23343	15.7%		
36						•=						
	Other Adjustments:											
38	Employee Discount			(\$367)			\$606	\$973				
39	SDFFD			\$1,987			\$1,966	(\$21)				
40				÷.,00.			\$1,000	(****)				
40	Credit for CSITMA Exempt Customers:		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.0%		
41	ordat for commit Exempt dustomers.		(90.00102)			(00.00103)			(\$0.00021)	13.0%		
	California Climate Credit - April Bill		(\$43.06)			(\$43.06)				_		
	Total Residential	313,234	\$1.47125	\$460,846	270,604	\$1.69468	\$458,588.150	(\$2,258)	\$0.22343	15.2%		

See footnotes, Table 1.

			Transportat							
			ego Gas & E							
		Jani	ary, 2024 R	lates						
			07/05/23							
			TCAP 1/1/2							
		t Present Rat			оро	sed Rates			Changes	
	Mar-1-22	Average	Mar-1-22	Jan-1-24		Average	Jan-1-24			Rate
	Volumes	Rate	Revenues	Volumes		Rate	Revenues	Revenues	Rates	chang
	mtherms	\$/therm	\$000's	mtherms		\$/therm	\$000's	\$000's	\$/therm	%
	A	В	С	D		E	F	G	Н	Ĺ
Residential RATES Schedule GR,GM										
Rates Exclude CSITMA & CAT										
Minimum Bill/Customer Charge	874,067	\$4.00	\$1,816	909,359		\$4.00	\$1,428	(\$388)		
Baseline \$/therm	255,260	\$1.33274	\$340,195	192,242		\$1.52933	\$294,002.712	(\$46,193)	\$0.19659	14.89
Non-Baseline \$/therm	57,974	\$1.60650	\$93,136	78,361		\$1.82786	\$143,233.487	\$50,098	\$0.22136	13.89
Average Rate \$/therm	313,234	\$1.38921	\$435,147	270,604		\$1.62106	\$438,664	\$3,517	\$0.23185	16.7
NBL/BL Ratio										
Composite Rate \$/th		\$ 1.83219			1.1880	\$1.94062			\$0.10843	
Gas Rate \$/th		\$ 0.49233			٣	\$0.40386			-\$0.08847	-18.0
NBL/Composite rate ratio		1.1455335				1.1500000				
NBL- BL rate difference \$/th		0.27376				\$0.29852			\$0.02476	
Rates Include CSITMA, CARB and GHG Adders, Excludes CAT										
CSITMA Adder to Volumetric Rate	246,343	\$0.00162	\$399	203,713		\$0.00183	\$373	(\$26)	\$0.00021	13.0
CARB Adder to Volumetric Rate	313,234	\$0.00137	\$429	270,604		\$0.00115	\$311			
GHG End User Adder to Volumetric Rate	313,234	\$0.09628	\$30,158	270,604		\$0.10546	\$28,538			
Baseline \$/therm	515,254	\$1.43201	\$50 , 150	270,004		\$1.63777	φ20,330	0	\$0.20576	14.49
Non-Baseline \$/therm		\$1.70577				\$1.93630			\$0.23053	13.5
Average NonCARE Rate \$/therm		\$1.48848			-	\$1.72950			\$0.24102	16.2
, totage nonovale nato ovinonin		¢1.10010				01.12000			\$0.2110L	10.0
Sub Meter Credit Schedule GS,GT										
GS Unit Discount \$/day	5.879	(\$0.58060)	(\$1,246)	5.879		(\$0.82422)	(\$1,768)	(\$523)	(\$0.24362)	42.0
,	26,104	(\$0.60099)	(\$5,726)	26,104		(\$0.85085)	(\$8,107)	(\$2,381)	(\$0.24986)	41.6
GT Unit Discount \$/day	20,104	(40.00033)	(03,720)	20,104		(\$0.03003)	(40,107)	(42,501)	(40.24500)	41.0
Schedule GL-1										
LNG Facility Charge, domestic use \$/month	293	\$14.79	\$52	262		\$14,79	\$47		\$0.00000	0.09
LNG Facility Charge, domestic use \$/month LNG Facility Charge, non-domestic \$/mth/mbtu	233	\$0.05480	ΨJZ	202		\$0.05480	Ψ 1	-	\$0.00000	0.09
LNG Volumetric Surcharge \$/th	76	\$0.16571	\$13	78		\$0.16571	\$13		\$0.00000	0.09
Livo volumenc oucharge orm	70	\$0.1057 I	\$65	70		\$0.10571	\$59		30.00000	0.07
Volumetric Rates Include All Adders & CAT			400				000			
CAT Adder to Volumetric Rate	2.253	\$0.00002	\$0	1.336		\$0.00002	\$0.029	(60)	\$0.00000	
	2,255	in the second se	\$U	1,556		100	\$U.UZ9	(\$0)	in the second se	3.4.41
Baseline \$/therm		\$1.43203				\$1.63780 \$1.93632			\$0.20577	14.4
Non-Baseline \$/therm Average Rate \$/therm		\$1.70579			-				\$0.23053	13.5
	1	\$1.48849				\$1.72952			\$0.24103	16.2
	1									
Other Adjustments:	1		(60.67)				6000	6070		
Employee Discount	1		(\$367)				\$606	\$973		
SDFFD	1		\$1,987				\$1,975	(\$12)		
	1				•				F	
Credit for CSITMA Exempt Customers:	1	(\$0.00162)			and a	(\$0.00183)			(\$0.00021)	13.0
						1010				
California Climate Credit - April Bill		(\$43.06)			18	(\$43.06)				

See footnotes, Table 1.

TABLE 3 Natural Gas Transportation Rate Revenues San Diego Gas & Electric January, 2024 Rates

	TCAP 1/1/2024											
		At	Present Rat	es	At Prop	oosed Rates			Changes			
		Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate		
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change		
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%		
		A	В	С	D	E	F	G	н	1		
1												
2												
3												
	CORE COMMERCIAL & INDUSTRIAL RATES Schedule GN-3		.	** - **		• · · · · ·	•• • •					
	Customer Charge \$/month	30,937	\$10.00	\$3,712	30,488	\$10.00	\$3,659	(\$54)	\$0.00000	0.0%		
6												
	Rates Exclude CSITMA & CAT							(00.000)				
8	Tier $1 = 0$ to 1,000 therms/month	87,627	\$0.72694	\$63,700	80,437	\$0.74333	\$59,791	(\$3,908)	\$0.01639	2.3%		
9	Tier $2 = 1,001$ to $21,000$ therms/month	88,939	\$0.48348	\$43,000	81,765	\$0.50875	\$41,598	(\$1,402)	\$0.02527	5.2%		
10	Tier 3 = over 21,000 therms/month	18,211	\$0.41470	\$7,552	16,711	\$0.44248	\$7,394	(\$158)	\$0.02778	6.7%		
11												
	Nates Includes Continia, Excludes CAT											
13	CSITMA Adder to Volumetric Rate	185,415	\$0.00162	\$300	169,551	\$0.00183	\$310	\$10	\$0.00021	13.0%		
14	Tier $1 = 0$ to 1,000 therms/month		\$0.72856			\$0.74516			\$0.01660	2.3%		
15	Tier $2 = 1,001$ to $21,000$ therms/month		\$0.48510			\$0.51058			\$0.02548	5.3%		
16 17	Tier 3 = over 21,000 therms/month		\$0.41632			\$0.44431			\$0.02799	6.7%		
18 19	Rates Include CSITMA & CAT											
20	CAT Adder to Volumetric Rate	39,978	\$0.00002	\$1	31,043	\$0.00002	\$1	(\$0)	\$0.00000			
20	Tier 1 = 0 to 1.000 therms/month	39,976	\$0.72858	φı	51,045	\$0.74518	φı	(\$0)	\$0.00000	2.3%		
21	Tier $2 = 1,001$ to 21,000 therms/month		\$0.72858 \$0.48512			\$0.51060			\$0.01001	5.3%		
22	Tier $3 = \text{over } 21,000 \text{ therms/month}$		\$0.48512 \$0.41634			\$0.44433			\$0.02549	5.3% 6.7%		
24			ψ0.+100+			φ000			φ0.02133	0.170		
	Other Adjustments:											
26	Adjustment for SDFFD			\$679			\$620	(\$59)				
27	Credit for CSITMA Exempt Customers:		(\$0.00162)	<i>4010</i>		(\$0.00183)	<i>4320</i>	(\$00)	(\$0.00021)	13.0%		
28	ordat for Commit Exempt Calcinoid.		(\$0.00102)			(\$5.55100)			(#0.00021)	.0.070		
	Total Core C&I	194,777	\$0.61067	\$118,944	178,913	\$0.63368	\$113,373	(\$5,571)	\$0.02301	3.8%		
			-0.0.001	÷		*******	÷,	(**,*)	20102001	0.070		

CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA. CARE participants receive 20% CARE discount (Tariff rate less Credit for CSITMA Exempt Customers)*20%
 See footnotes, Table 1.

			TABLE 3						
	Na		No. of the second s	Rate Revenu	les				
			iego Gas & E						
		Jan	uary, 2024 R						
	-		TCAP 1/1/2				1		
		t Present Rat	199219	1.54 (A.S. 1997)	posed Rates		8	Changes	
	Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
	A	В	С	D	E	F	G	Н	1
1									
2									
3									
4 CORE COMMERCIAL & INDUSTRIAL RATES Schedule GN-3									
5 Customer Charge \$/month	30,937	\$10.00	\$3,712	30,488	\$10.00	\$3,659	(\$54)	\$0.00000	0.0%
6									
7 Rates Exclude CSITMA & CAT									
8 Tier 1 = 0 to 1,000 therms/month	87,627	\$0.72694	\$63,700	80,437	\$0.75272	\$60,547	(\$3,153)	\$0.02578	3.5%
9 Tier 2 = 1,001 to 21,000 therms/month	88,939	\$0.48348	\$43,000	81,765	\$0.51752	\$42,315	(\$685)	\$0.03404	7.0%
10 Tier 3 = over 21,000 therms/month	18,211	\$0.41470	\$7,552	16,711	\$0.45107	\$7,538	(\$14)	\$0.03637	8.8%
11									
12 Rates Includes CSITMA, Excludes CAT									
13 CSITMA Adder to Volumetric Rate	185,415	\$0.00162	\$300	169,551	\$0.00183	\$310	\$10	\$0.00021	13.0%
14 Tier 1 = 0 to 1,000 therms/month		\$0.72856			\$0.75455			\$0.02599	3.6%
15 Tier 2 = 1,001 to 21,000 therms/month		\$0.48510			\$0.51935			\$0.03425	7.1%
16 Tier 3 = over 21,000 therms/month		\$0.41632			\$0.45290			\$0.03658	8.8%
17									
18									
19 Rates Include CSITMA & CAT									
20 CAT Adder to Volumetric Rate	39.978	\$0.00002	\$1	31.043	\$0.00002	\$1	(\$0)	\$0,00000	
21 Tier 1 = 0 to 1.000 therms/month	0.000	\$0,72858			\$0.75457	-	(*-7	\$0.02600	3.6%
22 Tier 2 = 1.001 to 21.000 therms/month		\$0,48512			\$0.51937			\$0.03425	7.1%
23 Tier 3 = over 21,000 therms/month		\$0.41634			\$0.45292			\$0.03658	8.8%
24									
25 Other Adjustments:									
26 Adjustment for SDFFD			\$679			\$629	(\$50)		
27 Credit for CSITMA Exempt Customers:		(\$0.00162)			(\$0.00183)	<i>\$</i> 323	(450)	(\$0.00021)	13.0%
28	4	100.00102)			(00.00103)			(40.00021)	10.070
29 Total Core C&I	194,777	\$0.61067	\$118,944	178.913	\$0.64276	\$114.998	(\$3,946)	\$0.03209	5.3%

CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA. CARE participants receive 20% CARE discount (Tariff rate less Credit for CSITMA Exempt Customers)*20%
 See footnotes, Table 1.

TABLE 4 Other Core Gas Transportation Rates San Diego Gas & Electric 09/20/22 January, 2024 Rates

			Jan	uary, 2024 F TCAP 1/1/2						
		Δ	t Present Rat			oosed Rates			Changes	
		Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24		onanges	Rate
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
		A	B	C	D	E	F	G	H	,°
1	NATURAL GAS VEHICLE RATES G-NGV & GT-NGV		a-Wide NGV I	-		-Wide NGV Rates				
2	Customer Charge									
3	P1 \$/month	15	\$13.00	\$2	15	\$13.00	\$2	\$0	\$0.00	0.0%
4	P2A \$/month	13	\$65.00	\$10	21	\$65.00	\$16	\$6	\$0.00	0.0%
5	· _ · · •						•••			,.
	Uncompressed Rate Exclude CSITMA & CAT \$/therm	24,129	\$0.22737	\$5,486	23,179	\$0.27387	\$6,348	\$862	\$0.04651	20.5%
	Compressor Adder \$/therm exclude CSITMA & CAT	628	\$1.04808	\$658	471	\$0.92010	\$433	(\$225)	(\$0.12797)	-12.2%
8	Combined transport & compressor adder \$/th	020	\$1.27544			\$1.19398		(\$220)	(\$0.08147)	-6.4%
9	Low Carbon Fuel Standard (LCFS) Credit		(\$1.23449)			(\$0.39924)			(\$0.00147)	-0.4 /8
9 10	Volumetric Rates Include CSITMA, CARB and GHG excludes CAT		(\$1.23449)			(\$0.39924)				
		04.400	6 0 00400	\$39	00.470	A A AA4AA	\$42	6 0	\$0.00021	13.0%
11	CSITMA Adder to Volumetric Rate	24,129	\$0.00162		23,179	\$0.00183		\$3	\$0.00021	13.0%
12	CARB Adder to Volumetric Rate	24,129	\$0.00137	\$33	23,179	\$0.00115	\$27			
13	GHG End User Adder to Volumetric Rate	24,129	\$0.09628	\$2,323	23,179	\$0.10546	\$2,444			
14	Uncompressed Rate \$/therm		\$0.32664	-	-	\$0.38231	-		\$0.05568	17.0%
15	Combined transport & compressor adder & LCFS Credit \$/th		\$0.14022			\$0.90318			\$0.76296	544.1%
16										
17	Volumetric Rates Include CSITMA & CAT									
18	CAT Adder to Volumetric Rate		\$0.00000			\$0.00000				
13	Uncompressed Nate Writerin		ψ 0. 02004		-	ψ0.3020 I			ψυ.υυυυυ	17.070
20	Combined transport & compressor adder \$/th		\$1.37471			\$1.30242			(\$0.07230)	-5.3%
21	Other Adjustments:									
22	Adjustment for SDFFD			\$12			\$15	\$3		
23	Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.0%
24	Low Carbon Fuel Standard (LCFS) Credit		(\$1.23449)		-	(\$0.39924)				
25	Total NGV	24,129	\$0.35496	\$8,565	23,179	\$0.40248	\$9,329	\$764	\$0.04752	13.4%
26										
27	RESIDENTIAL NATURAL GAS VEHICLES (optional rate)									
28	Customer Charge	15	\$5.00	\$1	12	\$5.00	\$1	(\$0)	\$0.00	0.0%
	Uncompressed Rate w/o CSITMA & CAT \$/therm	9	\$1.91063	\$18	7	\$2.38009	\$18	(\$0)	\$0.46946	24.6%
30	•	9	\$2.00711	\$19	7	\$2.47656	\$18	(\$0)	\$0.46946	23.4%
31		-						(+-)		
	Volumetric Rates Including CSITMA, Excluding CAT									
33	CSITMA Adder to Volumetric Rate	9	\$0.00162	\$0	7	\$0.00183	\$0		\$0.00021	13.0%
34	CARB Adder to Volumetric Rate	9	\$0.00102	\$0 \$0	7	\$0.00115	\$0 \$0		\$0.0002 I	13.078
34 35	GHG End User Adder to Volumetric Rate	9	\$0.00137 \$0.09628	\$0 \$1	7	\$0.00115 \$0.10546	\$0 \$1			
		3		φı	,		φı		\$0.47863	22.00/
36	Uncompressed Rate \$/therm		\$2.00990			\$2.48853			\$0.47863	23.8%
37										
38	Volumetric Rates Include CSITMA & CAT	0	6 0 00000	6 0	<u>^</u>	* 0.00000	* 2		* 0.00005	
39	CAT Adder to Volumetric Rate	0	\$0.00002	\$0	0	\$0.00002	\$0	\$0	\$0.00000	
40	Uncompressed Rate \$/therm		\$2.00992			\$2.48855		\$0	\$0.47863	23.8%
41										
	Other Adjustments:									
43	Adjustment for SDFFD			\$0			\$0	\$0		
44	Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.0%
45										
46	Total Residential NGV	9	\$2.10638	\$20	7	\$2.58501	\$19	(\$0)	\$0.47863	22.7%

1) CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA.

		Other Core (TABLE 4	rtation Rates					
			ego Gas & E						
		<u>3411 D1</u>	07/05/23						
		Jani	ary, 2024 R	ates					
		ount	TCAP 1/1/2						
	Δι	Present Rat			oosed Rates			Changes	
	Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24		changes	Ra
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	char
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
	A	B	C	D	E	F	G	H	Ĩ
NATURAL GAS VEHICLE RATES G-NGV & GT-NGV		a-Wide NGV F			-Wide NGV Rates				
Customer Charge	Compil	a vilac Nov I	uico	Gempre	What wor Matee				
P1 \$/month	15	\$13.00	\$2	15	\$13.00	\$2	\$0	\$0.00	0.0
P2A \$/month	13	\$65.00	\$10	21	\$65.00	\$16	\$6	\$0.00	0.1
	15	003.00	ΨIŪ	21	403.00	ΨIU	ΨŪ	40.00	0.
Uncompressed Rate Exclude CSITMA & CAT \$/therm	24,129	\$0.22737	\$5,486	23,179	\$0.27499	\$6.374	\$888	\$0.04763	20
Compressor Adder \$/therm exclude CSITMA & CAT	628	\$1.04808	\$658	471	\$0.92010	\$433	(\$225)	(\$0.12797)	-12
Combined transport & compressor adder \$/th	020	\$1.27544	0000	+/1	\$1,19510		(4223)	(\$0.08035)	-6.
Low Carbon Fuel Standard (LCFS) Credit		(\$1.23449)			(\$0.39924)			(00.00033)	-0.
Volumetric Rates Include CSITMA, CARB and GHG excludes CAT		(\$1.23443)			(00.55524)				
CSITMA Adder to Volumetric Rate	24,129	\$0.00162	\$39	23,179	\$0.00183	\$42	\$3	\$0,00021	13
CARB Adder to Volumetric Rate	24,129	\$0.00182	\$33	23,179	\$0.00185	\$27	φJ	JU.UUU2	15
GHG End User Adder to Volumetric Rate	24,129	\$0.00137 \$0.09628	\$2,323	23,179	\$0.10546	\$2,444			
	24,129		\$2,323	23,179		\$2,444		\$0.05680	17
Uncompressed Rate \$/therm		\$0.32664		-	\$0.38343	-			
Combined transport & compressor adder & LCFS Credit \$/th		\$0.14022			\$0.90430			\$0.76408	544
Volumetric Rates Include C SITMA & CAT									
CAT Adder to Volumetric Rate		\$0.00000			\$0.00000				
Uncompressed Rate \$/therm		\$0.32664		-	\$0.38343	-		\$0.05680	17
Combined transport & compressor adder \$/th		\$1.37471			\$1.30354			(\$0.07118)	-5
Other Adjustments:									
Adjustment for SDFFD			\$12	,		\$16	\$3		
Credit for CSITMA Exempt Customers \$/th	5	(\$0.00162)		1	(\$0.00103)			(\$0.00021)	13
Low Carbon Fuel Standard (LCFS) Credit		(\$1.23449)			(\$0.39924)		1		
Total NGV	24,129	\$0.35496	\$8,565	23,179	\$0.40362	\$9,355	\$791	\$0.04866	1
RESIDENTIAL NATURAL GAS VEHICLES (optional rate)									
Customer Charge	15	\$5.00	\$1	12	\$5.00	\$1	(\$0)	\$0.00	0
Uncompressed Rate w/o CSITMA & CAT \$/therm	9	\$1.91063	\$18	7	\$2.38718	\$18	(\$0)	\$0.47655	24
	9	\$2.00711	\$19	7	\$2.48366	\$19	(\$0)	\$0.47655	23
Volumetric Rates Including CSITMA, Excluding CAT				To					
CSITMA Adder to Volumetric Rate	9	\$0.00162	\$0	7	\$0.00183	\$0		\$0.00021	13
CARB Adder to Volumetric Rate	9	\$0.00137	\$0	7	\$0.00115	\$0			
GHG End User Adder to Volumetric Rate	9	\$0.09628	\$1	7	\$0.10546	\$1			
Uncompressed Rate \$/therm		\$2.00990			\$2.49562			\$0.48572	24
Volumetric Rates Include CSITMA & CAT									
CAT Adder to Volumetric Rate	0	\$0.00002	\$0	0	\$0.00002	\$0	\$0	\$0.00000	
Uncompressed Rate \$/therm	11/226	\$2.00992		1245.35	\$2.49565		\$0	\$0.48572	24
energenergenergen in en som en									
Other Adjustments:									
Adjustment for SDFFD			\$0			\$0	\$0		
Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13
		(30.00.02)			(00.00,00)			(00.00021)	
Total Residential NGV	9	\$2.10638	\$20	7	\$2.59210	\$19	(\$0)	\$0.48572	23

1) CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA.

TABLE 5 NonCore Gas Transportation Rates San Diego Gas & Electric

09/20/22 January, 2024 Rates

				TCAP 1/1/2	024					
		A	Present Rat			posed Rates			Changes	
		Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
		А	В	С	D	E	F	G	н	I
1	NonCore Commercial & Industrial Distribution Level									
2	Customer Charges \$/month	44	\$350.00	\$185	53	\$350.00	\$223	\$38	\$0.00	0.0%
3										
4	Volumetric Charges Exclude CARB, GHG, CSITMA	29,376	\$0.07162	\$2,104	35,337	\$0.10011	\$3,538	\$1,434	\$0.02849	39.8%
5	CSITMA Adder to Volumetric Rate	24,049	\$0.00162	\$39	30,010	\$0.00183	\$55	\$16	\$0.00021	13.0%
6	GHG Adder to Volumetric Rate		\$0.09628	\$2,456		\$0.10546	\$3,236	\$780	\$0.00918	
7										
8	Volumetric Charges Include CARB, GHG, and CSITMA									
9	Volumetric Rates \$/therm		\$0.16952			\$0.20740			\$0.03788	22.3%
10										
11	Other Adjustments:									
12	SDFFD									
13	Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.0%
14	Credit for CARB Fee Exempt Customers \$/th		(\$0.00137)			(\$0.00434)			(\$0.00297)	216.4%
15	Credit for GHG Fee Exempt Customers \$/th		(\$0.09628)			(\$0.10546)			(\$0.00918)	
16	NCCI-Distribution Total	29,376	\$0.16284	\$4,783	35,337	\$0.19954	\$7,051	\$2,268	\$0.03670	22.5%
17							_			
18	NCCI-Transmission Total (1)	17,569	\$0.03159	\$601	13,965	\$0.05337	\$785.86	\$184	\$0.02179	69.0%
19	NCCI-Transmission Class Average	17,569	\$0.03423	\$601	13,965	\$0.05627	\$786			
20	Total NonCore C&I	46,945	\$0.11471	\$5,385	49,302	\$0.15896	\$7,837	\$2,452	\$0.04425	38.6%
21										
	ELECTRIC GENERATION									
23										
24	Small EG Distribution Level Service (a Sempra-Wide rate) exclude	e CARB, GHG	, and CSITM	A						
25	Customer Charge, \$/month	69	\$50.00	\$41	80	\$50.00	\$48	\$7	\$0.00	0.0%
26	Volumetric Rate \$/therm	24,662	\$0.17395	\$4,290	31,429	\$0.17972	\$5,648	\$1,359	\$0.01	3.3%
27										
28	Large EG Distribution Level Service (a Sempra-Wide rate) exclude	CARB. GHG	. and CSITM	A						
29	Customer Charge, \$/month		\$0.00			\$0.00			\$0.00	
30	Volumetric Rate (Incl ITCS) \$/th	44,206	\$0.09924	\$4,387	40,227	\$0.11418	\$4,593	\$206	\$0.01	15.1%
31										
32	EG Distribution exclude CARB & GHG Fee, CSITMA	68,867	\$0.12659	\$8,718	71,656	\$0.14360	\$10,289	\$1,571	\$0.02	13.4%
33										
34	Volumetric Rates Includes CARB Fee. GHG Fee Excludes CSITMA:									
35	CARB Fee Cost Adder - Small	24,560	\$0.00137	\$34	31,429	\$0.00434	\$136	\$103	\$0.00297	
36	CARB Fee Cost Adder - Large	44,206	\$0.00137	\$61	40,227	\$0.00434	\$174			
37	GHG Fee Cost Adder - Small	23,556	\$0.09628	\$2,268	30,020	\$0.10546	\$3,166	\$898	\$0.00918	
		20,000	+		30,020	φ0.100 I0		φ050	φ0.00010	
38	GHG Fee Cost Adder - Large	11,921	\$0.09628	\$1,148	10,848	\$0.10546	\$1,144	φυσο	φ0.00010	
38 37							\$1,144	4000	\$0.01792	6.6%
38 37 38	GHG Fee Cost Adder - Large		\$0.09628			\$0.10546	\$1,144	\$030 ⁻		6.6% 13.8%
37	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level		\$0.09628 \$0.27160 \$0.19689 \$0.17756			\$0.10546 \$0.28952	\$1,144 \$14,910	\$2,682	\$0.01792	
37 38	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th	11,921	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137)	\$1,148	10,848	\$0.10546 \$0.28952 \$0.22398			\$0.01792 \$0.02709	13.8%
37 38 39	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level	11,921	\$0.09628 \$0.27160 \$0.19689 \$0.17756	\$1,148	10,848	\$0.10546 \$0.28952 \$0.22398 \$0.20808			\$0.01792 \$0.02709	13.8%
37 38 39 40 41 42	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th	11,921 68,867	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137)	\$1,148	10,848	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434)			\$0.01792 \$0.02709	13.8%
37 38 39 40 41 42	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th	11,921	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137)	\$1,148	10,848	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434)			\$0.01792 \$0.02709	13.8%
37 38 39 40 41 42 43	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th	11,921 68,867	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137) (\$0.09628)	\$1,148	10,848 71,656	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434) (\$0.10546)	\$14,910	\$2,682	\$0.01792 \$0.02709 \$0.03052	13.8% 17.2%
37 38 39 40 41 42 43 44	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th EG Transmission Level Service Excl CARB & GHG fee & CSITMA	11,921 68,867 461,363	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137) (\$0.09628) \$0.02859	\$1,148 \$12,228 \$13,192	10,848 71,656 225,945	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434) (\$0.10546) \$0.04931	\$14,910 \$11,141	\$2,682	\$0.01792 \$0.02709 \$0.03052 \$0.02071	13.8% 17.2% 72.4%
37 38 39 40 41 42 43 44 45	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th EG Transmission Level Service Excl CARB & GHG fee & CSITMA EG Transmission Level Service - CARB	11,921 68,867 461,363 39,584	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137) (\$0.09628) \$0.02859 \$0.00137	\$1,148 \$12,228 \$13,192 \$54	10,848 71,656 225,945 7,223	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434) (\$0.10546) \$0.04931 \$0.00224	\$14,910 \$11,141 \$16	\$2,682	\$0.01792 \$0.02709 \$0.03052 \$0.02071	13.8% 17.2% 72.4%
37 38 39 40 41 42 43 44 45 46	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th EG Transmission Level Service Excl CARB & GHG fee & CSITMA EG Transmission Level Service - CARB EG Transmission Level Service - GHG	11,921 68,867 461,363 39,584 2,963	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137) (\$0.09628) \$0.02859 \$0.00137 \$0.09628 \$0.00137	\$1,148 \$12,228 \$13,192 \$54 \$285 \$263	10,848 71,656 225,945 7,223 0	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434) (\$0.10546) \$0.04931 \$0.00224 \$0.10546	\$14,910 \$11,141 \$16 \$0	\$2,682	\$0.01792 \$0.02709 \$0.03052 \$0.02071	13.8% 17.2% 72.4%
37 38 39 40 41 42 43 44 45 46	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th EG Transmission Level Service Excl CARB & GHG fee & CSITMA EG Transmission Level Service - CARB EG Transmission Level Service - GHG EG Transmission Level Service - SGIP	11,921 68,867 461,363 39,584 2,963	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137) (\$0.09628) \$0.02859 \$0.00137 \$0.09628	\$1,148 \$12,228 \$13,192 \$54 \$285	10,848 71,656 225,945 7,223 0	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434) (\$0.10546) \$0.04931 \$0.00224 \$0.10546	\$14,910 \$11,141 \$16 \$0	\$2,682	\$0.01792 \$0.02709 \$0.03052 \$0.02071	13.8% 17.2% 72.4%
37 38 39 40 41 42 43 44 45 46 47 48 49	GHG Fee Cost Adder - Large EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level Credit for CARB Fee Exempt Customers \$/th Credit for GHG Fee Exempt Customers \$/th EG Transmission Level Service Excl CARB & GHG fee & CSITMA EG Transmission Level Service - CARB EG Transmission Level Service - SGIP EG Transmission Level Service - SGIP EG Transmission Level Service - SGIP	11,921 68,867 461,363 39,584 2,963 461,363	\$0.09628 \$0.27160 \$0.19689 \$0.17756 (\$0.00137) (\$0.09628) \$0.02859 \$0.00137 \$0.09628 \$0.00137	\$1,148 \$12,228 \$13,192 \$54 \$285 \$263	10,848 71,656 225,945 7,223 0 225,945	\$0.10546 \$0.28952 \$0.22398 \$0.20808 (\$0.00434) (\$0.10546) \$0.04931 \$0.00224 \$0.10546 \$0.00214	\$14,910 \$11,141 \$16 \$0 \$31	\$2,682	\$0.01792 \$0.02709 \$0.03052 \$0.02071	13.8% 17.2% 72.4%

1) CSITMA - Tariff rate Include CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA. Schedule EG Tariff Rate exclude CSITMA, since EG customers are exempt.

2) CARB - GTNC and EG Tariff rates Include CARB. Those EG and GTNC customers that are exempt will receive CARB credit. 3) GHG - GTNC and EG Tariff rates Include GHG. Those EG and GTNC customers that are exempt will receive GHG credit. See footnotes, Table 1.

TABLE 5 NonCore Gas Transportation Rates San Diego Gas & Electric 07/05/23 January, 2024 Rates TCAD 41/2024

		oun	TCAP 1/1/2						
	A	t Present Rat			oposed Rates		1	Changes	
	Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
	A	В	С	D	E	F	G	Н	T
NonCore Commercial & Industrial Distribution Level			1.0000000						
2 Customer Charges \$/month	44	\$350.00	\$185	53	\$350.00	\$223	\$38	\$0.00	0.0%
Volumetric Charges Exclude CARB, GHG, CSITMA	29,376	\$0.07162	\$2,104	35,337	\$0.10392	\$3,672	\$1,568	\$0.03230	45.1%
CSITMA Adder to Volumetric Rate	24,049	\$0.00162	\$39	30.010	\$0.00183	\$55	\$16	\$0.00021	13.0%
GHG Adder to Volumetric Rate		\$0.09628	\$2,456		\$0.10546	\$3,236	\$780	\$0.00918	
Volumetric Charges Include CARB, GHG, and CSITMA									
Volumetric Rates \$/therm		\$0.16952			\$0.21121			\$0.04170	24.6%
		00.10332			00.21121			30.04170	24.07
Other Adjustments:									
2 SDFFD									
3 Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.09
Credit for CARB Fee Exempt Customers \$/th		(\$0.00137)			(\$0.00434)			(\$0.00297)	216.4
Credit for GHG Fee Exempt Customers \$/th		(\$0.09628)			(\$0.10546)			(\$0.00918)	
NCCI-Distribution Total	29,376	\$0.16284	\$4,783	35,337	\$0.20335	\$7,186	\$2,402	\$0.04051	24.99
NCCI-Transmission Total (1)	17,569	\$0.03159	\$601	12.005	to 05264	\$700 4D	£400	\$0.02202	F co 70
NCCI-Transmission Total (1) NCCI-Transmission Class Average	17,569	\$0.03133	\$601	13,965 13,965	\$0.05361 \$0.05651	\$789.12 \$789	\$188	\$0.02202	69.75
Total NonCoro C81							2	for the constitution of	
	46,945	\$0.11471	\$5,385	49,302	\$0.16176	\$7,975	\$2,590	\$0.04705	41.09
ELECTRIC GENERATION									
Small EG Distribution Level Service (a Sempra-Wide rate) exclude	Ie CARB, GHO	and CSITM	Δ						
5 Customer Charge, \$/month	69	\$50.00	\$41	80	\$50.00	\$48	\$7	\$0.00	0.0%
5 Volumetric Rate \$/therm	24,662	\$0.17395	\$4,290	31,429	\$0,18059	\$5,676	\$1,386	\$0.01	3.8%
,				51,425	\$0.10033	\$3,010	\$1,500	00.01	5.07
Large EG Distribution Level Service (a Sempra-Wide rate) exclude	e CARB, GHO	5, and CSITM	<u>A</u>						
Customer Charge, \$/month		\$0.00			\$0.00		1	\$0.00	
) Volumetric Rate (Incl ITCS) \$/th	44,206	\$0.09924	\$4,387	40,227	\$0.11474	\$4,616	\$229	\$0.02	15.69
	100000000000								
EG Distribution exclude CARB & GHG Fee, CSITMA	68,867	\$0.12659	\$8,718	71,656	\$0.14429	\$10,339	\$1,621	\$0.02	14.09
3									
	24,560	\$0.00137	\$34	24,400	CO 00404	6400	6400	60 00007	
; CARB Fee Cost Adder - Small ; CARB Fee Cost Adder - Large	44,206	\$0.00137	\$61	31,429	\$0.00434	\$136	<mark>\$10</mark> 3	\$0.00297	
GHG Fee Cost Adder - Small	23,556	\$0.09628	\$2.268	40,227 30,020	\$0.00434 \$0.10546	\$174 \$3,166	\$898	E0 00040	
GHG Fee Cost Adder - Small	11,921	\$0.09628	\$1,148	30,020	\$0.10546	\$3,166 \$1,144	2020	\$0.00918	
EG-Distribution Tier 1 Incl CARB & GHG Fee, Excl CSITMA	11,321	\$0.27160	W1, 140	10,040	\$0.29039	51,144		\$0.01879	6.99
		\$0.19689			\$0.22454			\$0.01875	14.0
EG-Distribution Tier 2 Incl CARB & GHG Fee, Excl CSITMA Total - EG Distribution Level	68,867	\$0.17756	\$12,228	71,656	\$0.20878	\$14,960	\$2,732	\$0.03122	17.6
Credit for CARB Fee Exempt Customers \$/th	00,007	(\$0.00137)	V.L,LLU	71,030	(\$0.00434)	φ1 4 ,500	ΨΖ,Ι ΤΖ	Ψ0.03 12Z	17.0
Credit for GHG Fee Exempt Customers \$/th		(\$0.09628)			(\$0.10546)				
		1.4.0.000.000.000.000							
EG Transmission Level Service Excl CARB & GHG fee & CSITMA	461,363	\$0.02859	\$13,192	225,945	\$0.04954	\$11,194	(\$1,999)	\$0.02095	73.39
EG Transmission Level Service - CARB	39,584	\$0.00137	\$54	7,223	\$0.00224	\$16	(\$38)	\$0.00087	63.29
EG Transmission Level Service - GHG	2,963	\$0.09628	\$285	0	\$0.10546	\$0			
EG Transmission Level Service - SGIP	461,363	\$0.00057	\$263	225,945	\$0.00014	\$31			
7 EG Transmission Level Service Incl CARB & GHG Fee & CSITMA									
EG Transmission Level Service - Average (1)	461,363	\$0.02990	\$13,795	225,945	\$0.04975	\$11,241			
TOTAL ELECTRIC GENERATION	530,230	\$0.04908	\$26,023	297.600	\$0.08804	\$26,201	\$178	\$0.03896	79.4%
1) CSITMA - Tariff rate Include CSITMA, exempt customers (including CA		COD 10 200200 AUG 20	0.000			\$20,201	\$1/0	20.02030	19.4%

ipants and Constitutionally Exempt) receive Credit for CSITMA.

1) CSITMA - Tariff rate Include CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive C Schedule EG Tariff Rate exclude CSITMA, since EG customers are exempt.
 2) CARB - GTNC and EG Tariff rates Include CARB. Those EG and GTNC customers that are exempt will receive CARB credit.
 3) CHG - GTNC and EG Tariff rates Include CHG. Those EG and GTNC customers that are exempt will receive GHG credit.
 See footnotes, Table 1.

TABLE 6 Transmission Level Service Gas Transportation Rates San Diego Gas & Electric 09/20/22 January, 2024 Rates

		TCAP 1/1/2024										
			Present Rat			oosed Rates			Changes			
		Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24			Rate		
		Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	change		
		mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%		
1		A	В	С	D	E	F	G	Н	I		
1	Transmission Level Service Rate Excluding CSITMA, CARB, and G	HG Fees										
2	Reservation Service Option (RS):											
3	Daily Reservation rate \$/th/day		\$0.01077			\$0.02378			\$0.01301	120.8%		
4	Usage Charge for RS \$/th		\$0.01282			\$0.01240			(\$0.00042)	-3.3%		
5												
6	Class Average Volumetric Rate (CA)											
7	Volumetric Rate \$/th		\$0.01594			\$0.03721			\$0.02127	133.5%		
8	Usage Charge for CA \$/th		\$0.01282			\$0.01240			(\$0.00042)	-3.3%		
9	Class Average Volumetric Rate CA \$/th		\$0.02876			\$0.04961			\$0.02085	72.5%		
10	115% CA (for NonBypass Volumetric NV) \$/th											
11			\$0.03307			\$0.05705			\$0.02398	72.5%		
12	135% CA (for Bypass Volumetric BV) \$/th		\$0.03882			\$0.06697			\$0.02815	72.5%		
13	A server Terrer in the Lorentz	170.000	60 00050	\$10.00F	000.010	#0.04004	0 11 000	(01.005)	#0.00071	70.40/		
14	Average Transmission Level Service	478,932	\$0.02859	\$13,695	239,910	\$0.04931	\$11,830	(\$1,865)	\$0.02071	72.4%		
15	C&I Rate Include CSITMA, CARB, and GHG Fees											
16 17	CSITMA Adder to Usage Rate \$/th	17,569	\$0.00162	\$28	13,965	\$0.00183	\$26	(\$3)	\$0.00021	13.0%		
18	CARB Cost Adder	57,153	\$0.00182 \$0.00137	\$20 \$78	21,188	\$0.00183	\$28 \$47	(\$3)	\$0.00021	13.0%		
10	GHG Cost Adder	3,446	\$0.00137 \$0.09628	\$78 \$332	384	\$0.00224 \$0.10546	\$47 \$40		\$0.00087 \$0.00918			
20	SGIP Adder	3,440 17,569	\$0.09028	\$332 \$0	13,965	\$0.00000	\$40 \$0		\$0.00918			
20 21	Reservation Service Option (RS):	17,569	\$0.00000	\$ 0	13,905	\$0.00000	\$U					
21	Daily Reservation rate \$/th/day		\$0.01077			\$0.02378		\$0	\$0.01301	120.8%		
22	Usage Charge for RS \$/th		\$0.01077			\$0.12192		\$0 \$0	\$0.00984	8.8%		
23	Usage Charge for KS \$/(1)		φ0.11209			φ0.12192		\$U	<i>ф</i> 0.00964	0.0%		
25	Class Average Volumetric Rate (CA)											
26	Volumetric Rate \$/th		\$0.01594			\$0.03721		\$0	\$0.02127	133.5%		
27	Usage Charge for CA \$/th		\$0.11209			\$0.12192		\$0 \$0	\$0.00984	8.8%		
28	Class Average Volumetric Rate CA \$/th		\$0.12803			\$0.15914		\$0 \$0	\$0.03111	24.3%		
20	Class Average Volumente Nate CA With		φ0.12000			φ0.13314		φU	\$0.03111	24.378		
30	115% CA (for NonBypass Volumetric NV) \$/th		\$0.13234			\$0.16658		\$0	\$0.03424	25.9%		
31	135% CA (for Bypass Volumetric BV) \$/th		\$0.13809			\$0.17650		\$0 \$0	\$0.03841	27.8%		
32			Q0.10000			<i>Q</i> 0.11000		ψu	Q0.00011	21.070		
33	Other Adjustments:											
34	Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.0%		
35	CARB Fee Credit for Exempt Customers \$/th		(\$0.00137)			(\$0.00224)			(\$0.00087)	63.2%		
36	GHG Fee Credit for Exempt Customers \$/th		(\$0.09628)			(\$0.10546)			(\$0.00918)			
37						()			(1.1.1.1.1)			
38	EG Rate Include CARB & GHG Fees, excludes CSITMA:											
39	CARB Fee Cost Adder		\$0.00137			\$0.00224			\$0.00087			
40	GHG Fee Cost Adder		\$0.09628			\$0.10546			\$0.00918			
11	SGIP Adder	461,363	\$0.00057	\$263	225,945	\$0.00014	\$31					
12	Reservation Service Option (RS):											
3	Daily Reservation rate \$/th/day		\$0.01077			\$0.02378		\$0	\$0.01301	120.8%		
4	Usage Charge for RS \$/th		\$0.11104			\$0.12023		\$0	\$0.00919	8.3%		
5												
6	Class Average Volumetric Rate (CA)											
7	Volumetric Rate \$/th		\$0.01594			\$0.03721		\$0	\$0.02127	133.5%		
8	Usage Charge for CA \$/th		\$0.11104			\$0.12023		\$0	\$0.00919	8.3%		
9	Class Average Volumetric Rate CA \$/th		\$0.12698			\$0.15744		\$0	\$0.03047	24.0%		
0												
1	115% CA (for NonBypass Volumetric NV) \$/th		\$0.13129			\$0.16488		\$0	\$0.03359	25.6%		
2	135% CA (for Bypass Volumetric BV) \$/th		\$0.13704			\$0.17480		\$0	\$0.03776	27.6%		
3												
	Other Adjustments:											
55	CARB Fee Credit for Exempt Customers \$/th		(\$0.00137)			(\$0.00224)			(\$0.00087)	63.2%		
6	GHG Fee Credit for Exempt Customers \$/th		(\$0.09628)			(\$0.10546)			(\$0.00918)			
57												
	Average Transmission Level Service	478,932	\$0.03006	\$14,396	239,910	\$0.04991	\$11,974	(\$2,422)	\$0.01985	66.0%		

	Transmi			Transportatio	n Rates				
		San D	iego Gas & E	lectric					
			07/05/23						
		Jan	ary, 2024 F						
	A	t Present Rat			osed Rates		1	Changes	
	Mar-1-22	Average	Mar-1-22	Jan-1-24	Average	Jan-1-24		5	Rate
	Volumes	Rate	Revenues	Volumes	Rate	Revenues	Revenues	Rates	chang
	mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%
	A	В	С	D	E	F	G	Н	1
Transmission Level Service Rate Excluding CSITMA, CARB, and	nd GHG Fees								
Reservation Service Option (RS):									
Daily Reservation rate \$/th/day		\$0.01077			\$0.02374			\$0.01297	120.5
Usage Charge for RS \$/th		\$0.01282			\$0.01266			(\$0.00016)	-1.3%
Class Average Volumetric Rate (CA)					00 007/0				
Volumetric Rate \$/th		\$0.01594			\$0.03718			\$0.02125	133.3
Usage Charge for CA \$/th		\$0.01282			\$0.01266		2	(\$0.00016)	-1.39
Class Average Volumetric Rate CA \$/th		\$0.02876			\$0.04984			\$0.02108	73.39
115% CA (for NonBypass Volumetric NV) \$/th		E0 00007			E0 05700			E0 00405	72.20
135% CA (for Bypass Volumetric BV) \$/th		\$0.03307 \$0.03882			\$0.05732 \$0.06729			\$0.02425 \$0.02846	73.39 73.39
100 / 0 / (ioi Dypass volumenc Dv) with	1	φU.U3062			\$U.00729			φU.U∠046	13.5
Average Transmission Level Service	478,932	\$0.02859	\$13,695	239,910	\$0.04954	\$11,886	(\$1,809)	\$0.02095	73.39
	470,002	00.02033	ψ13,000	233,310	00.04004	ψ11,000	(\$1,000)	\$0.02033	10.0
C&I Rate Include CSITMA, CARB, and GHG Fees	1								
CSITMA Adder to Usage Rate \$/th	17,569	\$0.00162	\$28	13,965	\$0.00183	\$26	(\$3)	\$0.00021	13.0
CARB Cost Adder	57,153	\$0.00137	\$78	21,188	\$0.00224	\$47	(+-/	\$0.00087	
GHG Cost Adder	3,446	\$0.09628	\$332	384	\$0.10546	\$40		\$0.00918	
SGIP Adder	17,569	\$0,00000	\$0	13,965	\$0.00000	\$0			
Reservation Service Option (RS):				1					
Daily Reservation rate \$/th/day		\$0.01077			\$0.02374		\$0	\$0.01297	120.5
Usage Charge for RS \$/th		\$0.11209			\$0.12219		\$0	\$0.01010	9.09
							2017		
Class Average Volumetric Rate (CA)									
Volumetric Rate \$/th		\$0.01594			\$0.03718		\$0	\$0.02125	133.3
Usage Charge for CA \$/th		\$0.11209			\$0.12219		\$0	\$0.01010	9.0%
Class Average Volumetric Rate CA \$/th		\$0.12803			\$0.15937		\$0	\$0.03134	24.5
115% CA (for NonBypass Volumetric NV) \$/th		\$0.13234			\$0.16684		\$0	\$0.03450	26.1
135% CA (for Bypass Volumetric BV) \$/th		\$0.13809			\$0.17681		\$0	\$0.03872	28.0
Other Adjustments:		(00.00.00)			(00.00.00)			100 00000	
Credit for CSITMA Exempt Customers \$/th		(\$0.00162)			(\$0.00183)			(\$0.00021)	13.0
CARB Fee Credit for Exempt Customers \$/th		(\$0.00137) (\$0.09628)			(\$0.00224) (\$0.10546)			(\$0.00087) (\$0.00918)	63.2
GHG Fee Credit for Exempt Customers \$/th		(\$0.09628)		1	(\$0.10546)			(\$0.00918)	
EG Rate Include CARB & GHG Fees, excludes CSITMA:									
CARB Fee Cost Adder		\$0.00137			\$0.00224			\$0.00087	
GHG Fee Cost Adder		\$0.09628			\$0.10546			\$0.00918	
SGIP Adder	461,363	\$0.00057	\$263	225,945	\$0.00014	\$31		φ0.00510	
Reservation Service Option (RS):	401,505	40.00057	920J	225,545	30.00014	931			
Daily Reservation rate \$/th/day		\$0.01077			\$0.02374		\$0	\$0.01297	120.5
Usage Charge for RS \$/th		\$0.11104			\$0.12049		\$0	\$0.00945	8.5
		ψ0.1110 4			00.12040		ψŪ	00.00040	0.5
Class Average Volumetric Rate (CA)									
Volumetric Rate \$/th		\$0.01594			\$0.03718		\$0	\$0.02125	133.:
Usage Charge for CA \$/th		\$0.11104			\$0.12049		\$0	\$0.00945	8.5
Class Average Volumetric Rate CA \$/th		\$0.12698			\$0.15767		\$0	\$0.03070	24.2
115% CA (for NonBypass Volumetric NV) \$/th		\$0.13129			\$0.16515		\$0	\$0.03386	25.8
135% CA (for Bypass Volumetric BV) \$/th		\$0.13704			\$0.17512		\$0	\$0.03808	27.8
Other Adjustments:									
CARB Fee Credit for Exempt Customers \$/th		(\$0.00137)			(\$0.00224)			(\$0.00087)	63.2
GHG Fee Credit for Exempt Customers \$/th		(\$0.09628)			(\$0.10546)			(\$0.00918)	
		20.0		100000000	10020200000	2020		52 2 (2 Abrah)	
Average Transmission Level Service	478,932	\$0.03006	\$14,396	239,910	\$0.05014	\$12,030	(\$2,366)	\$0.02008	66.8

See footnotes Table 1

APPENDIX C

In D.17-09-035, the Commission defines marginal customer cost as the cost of providing service to an additional customer.³⁸ The Commission also identifies that "[n]ew connections costs are composed of costs associated with the investment required to provide access to a new customer . . ."³⁹ Algebraically, this can be expressed in basic marginal cost definition as follows:

 $Marginal\ customer\ capital\ cost = \frac{\Delta\ in\ total\ capital\ cost}{\Delta\ in\ one\ additional\ customer}$

Marginal cost is defined for small additional units, in this case gas service to an additional customer. This is precisely how the Rental method calculates marginal customer capital cost. Trying to express the NCO method algebraically shows that it is inconsistent with the basic definition of marginal cost:

NCO method customer capital cost = $\frac{\Delta in total capital cost for all new customers}{all customers (existing and new)}$

As the above equation shows, the denominator captures <u>all customers</u>, not <u>a change in the</u> <u>number of customers</u>, <u>let alone change in one additional customer</u>. NCO is an average cost method, not a marginal cost method. If the Commission is seeking to determine a true marginal customer cost, it must reject the NCO method, as it does not calculate the cost of providing service to an additional customer.

³⁸ See D.17-09-035 at 18, n.29. See also D.92-12-058 at 11 and 38.

³⁹ D.17-09-035 at 55 (FOF 9).

a. Adjusted Rental Methods

In A.16-06-013, the Commission's Energy Division proposed two alternative methods by adjusting marginal capital-related customer cost derived by the Rental method: Adjusted Rental Method 1 (ARM1) and Adjusted Rental Method 2 (ARM2).⁴⁰

As a conceptual matter, underlying the proposed Adjusted Rental methods, and the notion that they would produce legitimate marginal capital cost, renowned Economist Alfred Kahn was quoted as a supporting source. The quote states in part, "… marginal cost is the cost of producing one more unit; it can equally be envisaged as the cost that will be saved by producing one less unit."⁴¹ This quote was applied in the context of marginal customer related cost as "… marginal cost is the cost of connecting one more customer; it can equally be envisaged as the cost that would be saved by connecting one fewer customer."⁴² This application of Dr. Kahn's quote leads to the belief that neither the Rental nor the NCO method satisfied the basic symmetry property of marginal cost in that "[t]he cost of a new hookup (embodied in both methods) is not the same as the cost saved due to a permanent loss of an existing customer hookup."⁴³

The rationale appears to be that since the cost of a new hookup is not the same as the cost saved due to a permanent loss of an existing customer, and the fact that both Rental and NCO methods rely on new hookup costs only, these methods are not appropriately calculating capitalrelated marginal customer costs. Accordingly, in such situations one must somehow include

⁴⁰ The ARM1 and ARM2 methods are being addressed here because I am providing an illustrative analysis guided by the directives articulated by the Commission in D.17-09-035 for electric utilities should they propose a fixed customer charge. I am not suggesting that Energy Division is a party to this TCAP or that ARM1 and ARM2 methods are being proposed in this proceeding.

⁴¹ See Energy Division Staff Proposal on Adjusted Rental Method for Marginal Customer Cost in PG&E GRC Phase 2 (A.16-06-013) Second Fixed Cost Workshop (November 2, 2016), Appendix B at 2, available at: <u>https://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M170/K336/170336343.PDF</u>.

⁴² *Id.*

⁴³ *Id.* at 6.

both the cost of new hookup and the cost saved due to a permanent loss of an existing customer to derive appropriate capital-related customer cost.

In fact, Dr. Kahn does not discuss any such symmetry property of marginal cost. To provide the proper context of Dr. Kahn's discussion of marginal cost, I provide from Dr. Kahn's book the expanded quote:

... marginal cost is the cost of producing one more unit; it can equally be envisaged as the cost that would be saved by producing one less unit. Looked at the first way, it may termed incremental cost—the added cost of (a small amount of) incremental output. Observed the second way, it is synonymous with avoidable cost—the cost that would be saved by (slightly) reducing output. (Although these three terms are often used synonymously, marginal cost, strictly speaking, refers to the additional cost of supplying a single, infinitesimally small additional unit, while "incremental" and "avoidable" are sometimes used to refer to the average additional cost of a finite and possibly a large change in production or sales.) Why does the economist argue that, ideally, every buyer ought to pay a price equal to the cost of supplying one incremental unit?⁴⁴

Clearly, Dr. Kahn does not state or imply that the cost of producing one more unit must equal the cost that would be saved by producing one less unit. The last sentence in the quote is consistent the with definition of capital-related customer cost as the capital cost of one additional hookup. The cost of providing access to an additional customer will be different than the cost saved due to removing access to an existing customer.

⁴⁴ Kahn, Alfred E., *The Economics of Regulation, Principles and Institutions*, The MIT Press, Cambridge, Massachusetts and London, England, 1988, at 65-66.

Mathematically, I attempt to show why ARM1 and ARM2 would not produce a true marginal cost result.

i. ARM1

ARM1 is mathematically depicted as follows:

$$ARM1 MCAC = r1 * Rental MCAC$$
(1)

Where,45

$$r1 = \frac{TSM \text{ rate base value}}{TSM \text{ replacement cost new value}}$$

The ARM1 method adjusts the Rental capital-related marginal customer cost downward by an adjustment factor (r1) which the ratio of system-wide TSM rate base value to all TSM (existing and new) valued at the Rental method capital-related marginal customer cost. Energy Division proposed this adjustment factor to be at the system level; however, at least conceptually, it is more appropriate to develop this adjustment factor using residential TSMs only since our focus here is on residential TSM marginal cost. For the analysis below, I assume that the adjustment factor is based on residential TSMs only, not system-wide TSMs. The Rental MCAC in the equation (1) above can be rewritten as:

Rental MCAC = TSM replacement cost new value * $\left(\frac{RECC}{All residential customers}\right)$ (2)

Plugging in this expression for Rental MCAC into ARM1 in equation (1) above result in:

⁴⁵ MCAC is the capital-related component of marginal customer access cost, r1 is a system value and not customer-class specific, TSM is final line transformer, service drop and meter, replacement cost new value is the rental calculation (before RECC is applied) summed over all the Utilities' customers, and RECC is real economic carrying cost. Note: O&M are added after MCAC is calculated for both ARM1 MCAC and ARM2 MCAC.

$$ARM1 MCAC = \left(\frac{TSM \ rate \ base \ value}{TSM \ replacement \ cost \ new \ value}\right) * TSM \ replacement \ cost \ new \ value} \\ * \left(\frac{RECC}{All \ residential \ customers}\right)$$
(3)

Cancelling the TSM replacement cost new value in the numerator and the denominator in equation (3) leads to:

$$ARM1 MCAC = TSM \ ratebase \ value * \frac{RECC}{All \ residential \ customers}$$
(4)

ARM1 is supposed to reflect an adjustment to new connection cost under the Rental method with the adjustment being "correction" to the Rental method for violating the "basic symmetry property" of marginal cost. However, equation (4) shows that ARM1 new connection cost does not depend on new connection cost at all; rather, it depends on the rate base value of residential TSMs attributable to all past customer hookups. ARM1, therefore, is a backward-looking embedded cost method, not a forward-looking marginal cost method. In D.17-09-035, the Commission made it clear that new connection costs are forward-looking.⁴⁶

ii. ARM2

ARM2 is mathematically depicted as follows:

$$ARM2 MCAC = r2 * Rental MCAC$$
(5)

where,

$$r2 = \frac{TSM \ replacement \ cost \ new \ value \ less \ depreciation}{TSM \ replacement \ cost \ new \ value}$$
 ,

The ARM2 method adjusts the Rental capital-related marginal customer cost downward by an adjustment factor (r2) which the ratio of TSM replacement cost new value less

⁴⁶ *See* D.17-09-035 at 17, Table 1.

depreciation to TSM replacement cost new value. Again, this adjustment factor is proposed to be at the system level. As with ARM1, it is more appropriate to develop this adjustment factor using residential TSMs only since our focus here is on residential TSM marginal cost. Using similar steps described for ARM1 above, the ARM2 can be rewritten, assuming the r2 adjustment factor should be based on residential TSMs, not system-wide TSMs, as follows:

ARM2 MCAC = TSM replacement cost new less depreciation

$$*\frac{RECC}{All residential customers}$$
(6)

While ARM2 still requires the calculation of Rental capital-related marginal customer cost, lowering this marginal cost by an adjustment representing depreciation costs attributable to all past customer hookups violates the concept that new connection cost should be forward-looking.

As discussed above, the proposed adjustment to Rental method-based new connection cost to retain the so-called basic symmetry property of marginal cost is unsupported. Additionally, as demonstrated above, ARM1 simply depends on backward-looking rate base value, and, hence, an embedded cost method. By adjusting Rental method-based new connection cost using backward-looking depreciation, ARM2 does not portray a forward-looking concept of marginal cost. Therefore, if the Commission is seeking a true marginal cost, the Adjusted Rental methods would not produce this result.