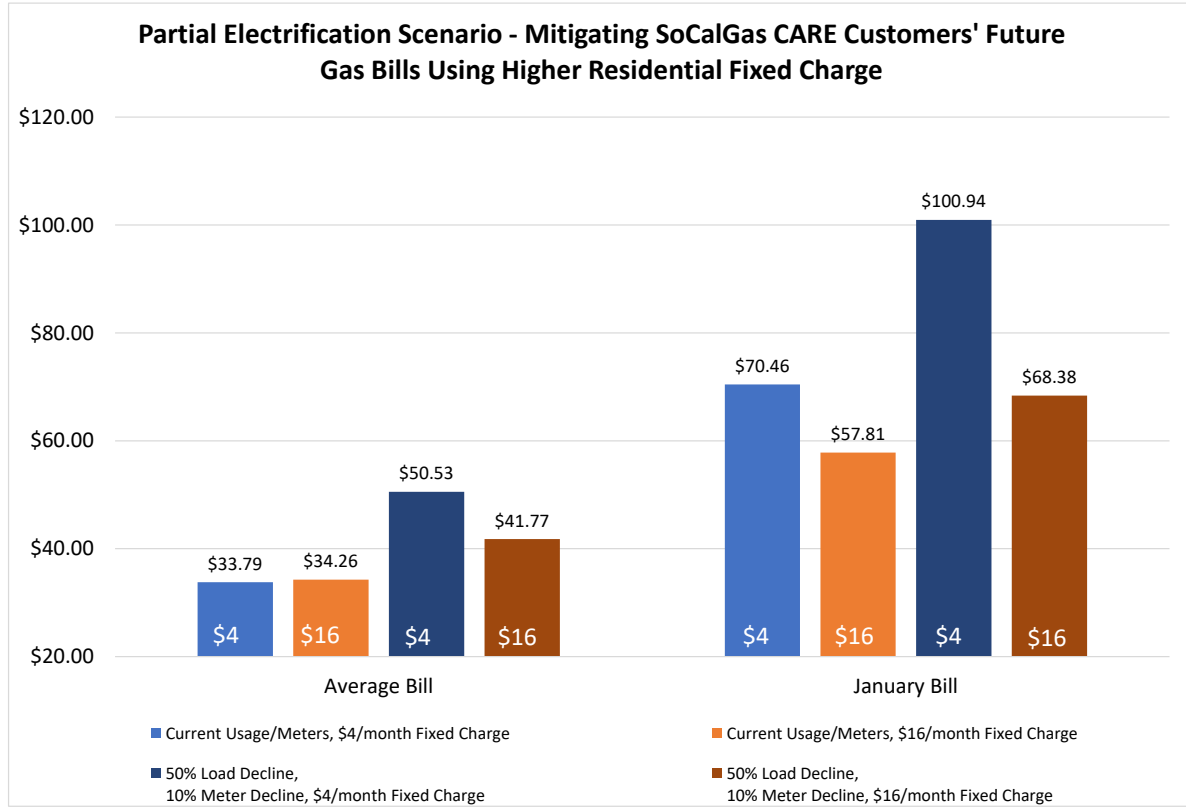


SoCalGas

	Current Usage/Meters,		50% Load Decline, 10% Meter Decline,	
	\$4/month Fixed Charge	\$16/month Fixed Charge	\$4/month Fixed Charge	\$16/month Fixed Charge
Average Bill	\$33.79	\$34.26	\$50.53	\$41.77
January Bill	\$70.46	\$57.81	\$100.94	\$68.38
		-1% 18%	17% 32%	



Data Point

CEC R&D program

CDTFA administrative costs

CPUC Admin Expenses

Constitutionally exempt volumes

CARE participation level

Program costs and Balances for Rates (CARE, LIEE, EE, and RD&D

Res Class Average Transportation Rate

WACOG forecast

CEC R&D program

CDFTA administrative costs

CPUC administrative costs

Interstate pipeline volumes

Source	Department	Requested	Received	Comments:
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
Huliganga, Kristine <KHuligan	Customer Pricing	✓	✓	
Rose-Marie Payan	Demand Forecasting	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
October Reg Acct Filing	Transportation Rate Mo	✓	✓	
October Reg Acct Filing	Transportation Rate Mo	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	
Haritsonian, Anna M <AHarito	Regulatory Account	✓	✓	

**SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP**

**Section 2
NGV Compression Rate Adder Model**

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

2024 TCAP
 NGV Compression Adder Revenue Requirement

NGV Station Costs \$000's	Total Public & Private Access		Public Access Station		Data Source
	\$000's/yr	\$/th	\$000's/yr	\$/th	
NGV Station Rate Base	\$25,514	\$1.97	\$17,130	\$1.67	Return tab
Rate of Return %	7.30%		7.30%		Return tab
Return on Ratebase	\$1,862	\$0.14	\$1,250	\$0.12	
Income Taxes	\$618	\$0.05	\$415	\$0.04	Return Tab
Ad Valorem Taxes	\$327	\$0.03	\$220	\$0.02	Return Tab
Depreciation Expense	\$2,188	\$0.17	\$1,357	\$0.13	NGV Dept
Capital Related Revenue Requirement	\$4,996	\$0.39	\$3,242	\$0.32	
NGV Station Throughput in THERMS	12,922,575		10,231,560		
O&M Expense \$/th = \$0.380	\$4,911	\$0.38	\$3,888	\$0.38	NGV Dept
Electricity Expense Public & Priva \$/th = \$0.180	\$2,326	\$0.18	\$1,739	\$0.17	NGV Dept
Electricity Expense Public \$/th = \$0.170					
Customer Related O&M	\$7,237	\$0.56	\$5,627	\$0.55	
Effective NGV Station Revenue Requirement	\$12,233	\$0.95	\$8,870	\$0.87	
Total NGV Station Throughput in therms	12,922,575		10,231,560		NGV Dept
Compression Throughput Mth/year	12,923	12,923	10,232	10,232	
Compression Rate \$/therm	\$0.95		\$0.87		
Sempra Wide Compressor Adder \$/therm			\$0.91453		SCG RD model/Rate tables

2024 TCAP

Calculation of Capital Related costs

Calculation of NGV Station Capital related Costs \$000's	Total Public & Private Access \$000's/yr	Public Access Station \$000's/yr	Data Source	Notes
NBV of NGV Stations	\$43,818	\$29,419	Recorded 2021	updated
Total NBV of Utility Gas Plant in Service	\$16,095,443	\$16,095,443	FERC Form 2 p.200, line 15	updated
NBV Ratio	0.27%	0.18%		
Total Utility Rate Base	\$9,371,894	\$9,371,894	Recorded 2021	updated
NBV Ratio	0.27%	0.18%		
NGV Station Ratebase	\$25,514	\$17,130		
Total Utility Income & CNG Fuel taxes	\$227,084	\$227,084	FERC Form 2 p.263a, lines 2 + 9 +5,e	updated
NBV Ratio	0.27%	0.18%		
NGV Station Income & CNG Fuel taxes	\$618	\$415		
Total Utility AdValorem taxes	\$120,107	\$120,107	FERC Form 2 p.263a, line 16 e	updated
NBV Ratio	0.27%	0.18%		
NGV Station Income & CNG Fuel taxes	\$327	\$220		

Calculation of Authorized ROR% and Total Return on Ratebase:

	Capital Ratio	Rate	ROR%		
Long-Term Debt	45.60%	4.23%	1.93%	FERC Form 2 p.122.22, Cost of Capital	updated
Preferred Stock	2.40%	6.00%	0.14%		
Common Equity	52.00%	10.05%	5.23%		
Total ROR%	100%		7.30%		

**SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP**

**Section 3
Submeter Credit Model**

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

Step 1: Submetering Avoided Cost Credit

>> For multi-family dwelling units & mobile home parks supplied through one meter and submetered to all individual units (Schedule GS).
 >> Due to use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter Capital and O&M Expenses.
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M ÷ Average No. of Subunits Per Master Meter)
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 52-A, As Filed w/Scaling.

**SUBMETER AVOIDED COST CREDIT
2024 TCAP Update**

		Avoided Cost Per Subunit (Single Family)	Incurred Cost Per Master Meter (Small)		
		(\$/cst/yr.)	(\$/cst/yr.)		
Capital Cost - Annual Revenue Requirement					
1	Meter	\$45.97	\$146.93	1	SCG LRMC Customer Cost - Tab cust mc
2	Service Line	\$79.63	\$807.57	2	SCG LRMC Customer Cost - Tab cust mc
3	Mains (Exclusive use)	\$0.00	\$0.00	3	SCG LRMC Customer Cost - Tab cust mc
4	Subtotal Capital	\$125.61	\$954.50	4	
O&M Cost					
5	Meter O&M	\$1.59	\$5.14	5	SCG LRMC Customer Cost - Tab cust mc
6	Service Line O&M	\$9.07	\$14.40	6	SCG LRMC Customer Cost - Tab cust mc
7	Customer Services O&M	\$24.52	\$24.52	7	SCG LRMC Customer Cost - Tab cust mc
8	Customer Accounts O&M	\$15.27	\$15.27	8	SCG LRMC Customer Cost - Tab cust mc
	Customer Service & Information Cost (CSI) Costs O&M	\$3.78	\$3.78		
O&M Loaders					
9	A&G Loading	\$47.29	\$55.02	9	SCG LRMC Customer Cost - Tab cust mc
10	General Plant Loading	\$47.09	\$54.79	10	SCG LRMC Customer Cost - Tab cust mc
11	M&S Costs	\$0.27	\$0.31	11	SCG LRMC Customer Cost - Tab cust mc
12	Subtotal O&M	\$148.87	\$173.23	12	
13	Net Capital + O&M Cost	\$274.47	\$1,127.73	13	
14	x Scaling Factor	69.59%	69.59%	14	SCG Cost Allocation
15	= Avoided / Incurred Cost / Yr	\$191.01	\$784.81	15	
16	+ Number Months / Year	12	12	16	
17	= Avoided / Incurred Cost / Mo	\$15.92	\$65.40	17	
18	+ Avg No. of Subunits Per Master Meter Account	1	81	18	Recorded 2021
19	= Incurred Cost Per Living Unit for Master Meter		\$0.80	19	
20	Net Avoided Cost / Month	\$15.12	<<< OUTPUT	20	<<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.

Step 2: Daily Submetering Credit

>> The Submeter Avoided Cost Credit Is Provided As A Daily Credit for Tariff Reporting Purposes.
 >> Note: CARE Customers Receive the Submeter Avoided Cost Credit LESS the CARE Discount.

**DAILY SUBMETER CREDIT
2024 TCAP Update**

Description		GS / GT - S (Dollars)	Care Rate GSL / GT - SL (Dollars)		
1	Net Avoided Cost / Month	\$15.12	\$15.12	1	
2	- SoCalGas Monthly Cust Charge	\$5.00	\$4.00	2	<<< Employs Current CARE Discount Rate of 20%
3	Submeter Credit / Month	\$10.12	\$11.12	3	<<< OUTPUT
4	x Number Months / Year	12	12	4	
5	Submeter Credit / Year	\$121.44	\$133.44	5	
6	+ Number Days / Year	365	365	6	
7	= Submeter Credit / Day	\$0.33271	\$0.36559	7	<<< OUTPUT

Step 1: Submetering Avoided Cost Credit

>> For multi-family dwelling units & mobile home parks supplied through one meter and submetered to all individual units (Schedule GS).
 >> Due to use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M ÷ Average No. of Subun
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 52-A, As Filed w/Scaling.

**SUBMETER AVOIDED COST CREDIT
2024 TCAP Update**

		Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per Master Meter (\$ /cst/yr.)
	Capital Cost - Annual Revenue Requirement		
1	Meter	\$45.97	\$146.93
2	Service Line	\$79.63	\$807.57
3	Mains (Exclusive use)	\$0.00	\$0.00
4	Subtotal Capital	\$125.61	\$954.50
	O&M Cost		
5	Meter O&M	\$1.59	\$5.14
6	Service Line O&M	\$9.07	\$14.40
7	Customer Services O&M	\$24.52	\$24.52
8	Customer Accounts O&M	\$15.27	\$15.27
	Customer Service & Information Cost (CSI) Costs O&M	\$3.78	\$3.78
	O&M Loaders		
9	A&G Loading	\$47.29	\$55.02
10	General Plant Loading	\$47.09	\$54.79
11	M&S Costs	\$0.27	\$0.31
12	Subtotal O&M	\$148.87	\$173.23
13	Net Capital + O&M Cost	\$274.47	\$1,127.73
14	x Scaling Factor	69.50%	69.50%
15	= Avoided / Incurred Cost / Yr	\$190.75	\$783.74
16	÷ Number Months / Year	12	12
17	= Avoided / Incurred Cost / Mo	\$15.90	\$65.31
18	÷ Avg No. of Subunits Per Master Meter Account	1	81
19	= Incurred Cost Per Living Unit for Master Meter		\$0.80
20	Net Avoided Cost / Month	\$15.10	<<< OUTPUT

Step 2: Daily Submetering Credit

>> The Submeter Avoided Cost Credit Is Provided As A Daily Credit for Tariff Reporting Purposes.
 >> Note: CARE Customers Receive the Submeter Avoided Cost Credit LESS the CARE Discount.

**DAILY SUBMETER CREDIT
2024 TCAP Update**

	Description	GS / GT - S (Dollars)	Care Rate GSL / GT - SL (Dollars)
1	Net Avoided Cost / Month	\$15.10	\$15.10
2	- SoCalGas Monthly Cust Charge	\$10.00	\$5.00
3	Submeter Credit / Month	\$5.10	\$10.10
4	x Number Months / Year	12	12
5	Submeter Credit / Year	\$61.20	\$121.20
6	÷ Number Days / Year	365	365
7	= Submeter Credit / Day	\$0.16767	\$0.33205

Capital and O&M Expenses.

(Units Per Master Meter)

(Small)

1	SCG LRMC Customer Cost - Tab cust mc
2	SCG LRMC Customer Cost - Tab cust mc
3	SCG LRMC Customer Cost - Tab cust mc
4	
5	SCG LRMC Customer Cost - Tab cust mc
6	SCG LRMC Customer Cost - Tab cust mc
7	SCG LRMC Customer Cost - Tab cust mc
8	SCG LRMC Customer Cost - Tab cust mc
9	SCG LRMC Customer Cost - Tab cust mc
10	SCG LRMC Customer Cost - Tab cust mc
11	SCG LRMC Customer Cost - Tab cust mc
12	
13	
14	SCG Cost Allocation
15	
16	
17	
18	Recorded 2021
19	
20	<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.

<<< GSL / GT - SL Tariff for Low Income Assistance Customers.

1	
2	<<< Employs Current CARE Discount Rate of 20%
3	<<< OUTPUT
4	
5	
6	
7	<<< OUTPUT

Step 1: Submetering Avoided Cost Credit

>> For multi-family dwelling units & mobile home parks supplied through one meter and submetered to all individual units (Schedule GS).
 >> Due to use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M ÷ Average No. of Subun
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 52-A, As Filed w/Scaling.

**SUBMETER AVOIDED COST CREDIT
2024 TCAP Update**

		Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per Master Meter (\$ /cst/yr.)
	Capital Cost - Annual Revenue Requirement		
1	Meter	\$45.97	\$146.93
2	Service Line	\$79.63	\$807.57
3	Mains (Exclusive use)	\$0.00	\$0.00
4	Subtotal Capital	\$125.61	\$954.50
	O&M Cost		
5	Meter O&M	\$1.59	\$5.14
6	Service Line O&M	\$9.07	\$14.40
7	Customer Services O&M	\$24.52	\$24.52
8	Customer Accounts O&M	\$15.27	\$15.27
	Customer Service & Information Cost (CSI) Costs O&M	\$3.78	\$3.78
	O&M Loaders		
9	A&G Loading	\$47.29	\$55.02
10	General Plant Loading	\$47.09	\$54.79
11	M&S Costs	\$0.27	\$0.31
12	Subtotal O&M	\$148.87	\$173.23
13	Net Capital + O&M Cost	\$274.47	\$1,127.73
14	x Scaling Factor	69.02%	69.02%
15	= Avoided / Incurred Cost / Yr	\$189.43	\$778.31
16	÷ Number Months / Year	12	12
17	= Avoided / Incurred Cost / Mo	\$15.79	\$64.86
18	÷ Avg No. of Subunits Per Master Meter Account	1	81
19	= Incurred Cost Per Living Unit for Master Meter		\$0.80
20	Net Avoided Cost / Month	\$14.99	<<< OUTPUT

Step 2: Daily Submetering Credit

>> The Submeter Avoided Cost Credit Is Provided As A Daily Credit for Tariff Reporting Purposes.
 >> Note: CARE Customers Receive the Submeter Avoided Cost Credit LESS the CARE Discount.

**DAILY SUBMETER CREDIT
2024 TCAP Update**

	Description	GS / GT - S (Dollars)	Care Rate GSL / GT - SL (Dollars)
1	Net Avoided Cost / Month	\$14.99	\$14.99
2	- SoCalGas Monthly Cust Charge	\$15.00	\$7.50
3	Submeter Credit / Month	\$0.00	\$7.49
4	x Number Months / Year	12	12
5	Submeter Credit / Year	\$0.00	\$89.88
6	÷ Number Days / Year	365	365
7	= Submeter Credit / Day	\$0.00000	\$0.24625

Capital and O&M Expenses.

(Units Per Master Meter)

(Small)

1	SCG LRMC Customer Cost - Tab cust mc
2	SCG LRMC Customer Cost - Tab cust mc
3	SCG LRMC Customer Cost - Tab cust mc
4	
5	SCG LRMC Customer Cost - Tab cust mc
6	SCG LRMC Customer Cost - Tab cust mc
7	SCG LRMC Customer Cost - Tab cust mc
8	SCG LRMC Customer Cost - Tab cust mc
9	SCG LRMC Customer Cost - Tab cust mc
10	SCG LRMC Customer Cost - Tab cust mc
11	SCG LRMC Customer Cost - Tab cust mc
12	
13	
14	SCG Cost Allocation
15	
16	
17	
18	Recorded 2021
19	
20	<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.

<<< GSL / GT - SL Tariff for Low Income Assistance Customers.

1	
2	<<< Employs Current CARE Discount Rate of 20%
3	<<< OUTPUT
4	
5	
6	
7	<<< OUTPUT

Step 1: Submetering Avoided Cost Credit

>> For multi-family dwelling units & mobile home parks supplied through one meter and submetered to all individual units (Schedule GS).
 >> Due to use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter
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 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 52-A, As Filed w/Scaling.

**SUBMETER AVOIDED COST CREDIT
2024 TCAP Update**

		Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per Master Meter (\$ /cst/yr.)
	Capital Cost - Annual Revenue Requirement		
1	Meter	\$45.97	\$146.93
2	Service Line	\$79.63	\$807.57
3	Mains (Exclusive use)	\$0.00	\$0.00
4	Subtotal Capital	\$125.61	\$954.50
	O&M Cost		
5	Meter O&M	\$1.59	\$5.14
6	Service Line O&M	\$9.07	\$14.40
7	Customer Services O&M	\$24.52	\$24.52
8	Customer Accounts O&M	\$15.27	\$15.27
	Customer Service & Information Cost (CSI) Costs O&M	\$3.78	\$3.78
	O&M Loaders		
9	A&G Loading	\$47.29	\$55.02
10	General Plant Loading	\$47.09	\$54.79
11	M&S Costs	\$0.27	\$0.31
12	Subtotal O&M	\$148.87	\$173.23
13	Net Capital + O&M Cost	\$274.47	\$1,127.73
14	x Scaling Factor	69.02%	69.02%
15	= Avoided / Incurred Cost / Yr	\$189.43	\$778.31
16	÷ Number Months / Year	12	12
17	= Avoided / Incurred Cost / Mo	\$15.79	\$64.86
18	÷ Avg No. of Subunits Per Master Meter Account	1	81
19	= Incurred Cost Per Living Unit for Master Meter		\$0.80
20	Net Avoided Cost / Month	\$14.99	<<< OUTPUT

Step 2: Daily Submetering Credit

>> The Submeter Avoided Cost Credit Is Provided As A Daily Credit for Tariff Reporting Purposes.
 >> Note: CARE Customers Receive the Submeter Avoided Cost Credit LESS the CARE Discount.

**DAILY SUBMETER CREDIT
2024 TCAP Update**

	Description	GS / GT - S (Dollars)	Care Rate GSL / GT - SL (Dollars)
1	Net Avoided Cost / Month	\$14.99	\$14.99
2	- SoCalGas Monthly Cust Charge	\$20.00	\$10.00
3	Submeter Credit / Month	\$0.00	\$4.99
4	x Number Months / Year	12	12
5	Submeter Credit / Year	\$0.00	\$59.88
6	÷ Number Days / Year	365	365
7	= Submeter Credit / Day	\$0.00000	\$0.16405

Capital and O&M Expenses.

(Units Per Master Meter)

(Small)

1	SCG LRMC Customer Cost - Tab cust mc
2	SCG LRMC Customer Cost - Tab cust mc
3	SCG LRMC Customer Cost - Tab cust mc
4	
5	SCG LRMC Customer Cost - Tab cust mc
6	SCG LRMC Customer Cost - Tab cust mc
7	SCG LRMC Customer Cost - Tab cust mc
8	SCG LRMC Customer Cost - Tab cust mc
9	SCG LRMC Customer Cost - Tab cust mc
10	SCG LRMC Customer Cost - Tab cust mc
11	SCG LRMC Customer Cost - Tab cust mc
12	
13	
14	SCG Cost Allocation
15	
16	
17	
18	Recorded 2021
19	
20	<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.

<<< GSL / GT - SL Tariff for Low Income Assistance Customers.

1	
2	<<< Employs Current CARE Discount Rate of 20%
3	<<< OUTPUT
4	
5	
6	
7	<<< OUTPUT

**SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP**

CARE Bill Impact Calculations

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

2024 TCAP
 Bill Impact Calculations

TCAP CARE Bill Impact Graph Data				15		20			
50% vol and customer count Usage				CARE Discount - Cust Charge		CARE Discount			
						20%		50%	
						20%		20%	
	\$5 Cust Charge, 20% CARE Discount	\$15 Cust Charge, 50% CARE Discount on Cust Charge	\$5 Cust Charge, 20% CARE Discount	\$15 Cust Charge, 50% CARE Discount on Cust Charge	\$5 Cust Charge, 20% CARE Discount	\$15 Cust Charge, 50% CARE Discount on Cust Charge	\$5 Cust Charge, 20% CARE Discount	\$15 Cust Charge, 50% CARE Discount on Cust Charge	
January	0.89	(13.24)		(8.80)		(11.70)			
February	0.55	(11.91)		(8.82)		(11.19)			
March	0.89	(5.56)		(5.47)		(5.48)			
April	1.45	(5.30)		(4.57)		(5.25)			
May	1.90	(0.83)		(0.79)		(0.80)			
June	1.78	(0.94)		(0.90)		(0.91)			
July	2.23	(0.81)		(0.78)		(0.79)			
August	2.23	(0.81)		(0.78)		(0.78)			
September	2.11	(0.93)		(0.90)		(0.90)			
October	2.23	(0.82)		(0.79)		(0.79)			
November	1.78	(5.28)		(3.57)		(4.32)			
December	1.23	(13.20)		(6.13)		(8.55)			
Average	1.61	(4.97)		(3.53)		(4.29)			

2024 TCAP
Bill Impact Calculations

CARE Bill Impacts Lowest 10 Percentile

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Care Discount	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
										Discount - Customer Charge	Care Discount							Discount - Customer Charge	Care Discount					
Yes	1	1,750,275	46	35	10	92	37	8	11.93	12.83	0.89	TRUE	1.600	31	50	20%	20%	20%	50%	8	8	0		
Yes	2	1,762,765	43	34	9	85	36	8	11.54	12.09	0.55	TRUE	1.600	28	45	20%	20%	20%	50%	8	8	0		
Yes	3	1,770,705	38	32	6	75	32	8	11.93	12.83	0.89	TRUE	0.874	31	27	20%	20%	20%	50%	8	8	0		
Yes	4	1,782,822	28	26	2	53	24	6	9.84	11.28	1.45	TRUE	0.874	30	26	20%	20%	20%	50%	6	6	0		
Yes	5	1,800,018	21	18	3	38	19	5	8.99	10.88	1.90	TRUE	0.424	31	13	20%	20%	20%	50%	5	5	0		
Yes	6	1,803,972	19	11	8	35	17	5	8.86	10.64	1.78	TRUE	0.424	30	13	20%	20%	20%	50%	5	5	0		
Yes	7	1,813,785	16	10	6	29	14	4	8.01	10.24	2.23	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0		
Yes	8	1,821,982	15	10	5	27	13	4	8.01	10.24	2.23	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0		
Yes	9	1,830,888	16	10	6	29	14	4	7.87	9.99	2.11	TRUE	0.424	30	13	20%	20%	20%	50%	4	4	0		
Yes	10	1,824,865	18	11	8	33	16	4	8.01	10.24	2.23	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0		
Yes	11	1,804,430	23	16	8	43	21	5	8.86	10.64	1.78	TRUE	0.874	30	26	20%	20%	20%	50%	5	5	0		
Yes	12	1,791,172	36	27	9	74	29	7	10.95	12.18	1.23	TRUE	1.600	31	50	20%	20%	20%	50%	7	7	0		
									9.57		1.61													
											0.17													

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.005577	0.022411264		0.493150685	0.37181619	1.212929222		0.073235844	0.005577	0.022411264
11.93	4.07671	5.06063	-	2.57203	-	0.04616	0.17929	12.83	7.64384	2.37962	-	2.57814	-	0.04616	0.17929
11.54	3.68219	5.06063	-	2.57203	-	0.04616	0.17929	12.09	6.90411	2.37962	-	2.57814	-	0.04616	0.17929
11.93	4.07671	5.06063	-	2.57203	-	0.04616	0.17929	12.83	7.64384	2.37962	-	2.57814	-	0.04616	0.17929
9.84	3.94521	3.79547	-	1.92902	-	0.03462	0.13447	11.28	7.39726	1.78472	-	1.93361	-	0.03462	0.13447
8.99	4.07671	3.16289	-	1.60752	-	0.02885	0.11206	10.88	7.64384	1.48726	-	1.61134	-	0.02885	0.11206
8.86	3.94521	3.16289	-	1.60752	-	0.02885	0.11206	10.64	7.39726	1.48726	-	1.61134	-	0.02885	0.11206
8.01	4.07671	2.53031	-	1.28602	-	0.02308	0.08965	10.24	7.64384	1.18981	-	1.28907	-	0.02308	0.08965
8.01	4.07671	2.53031	-	1.28602	-	0.02308	0.08965	10.24	7.64384	1.18981	-	1.28907	-	0.02308	0.08965
7.87	3.94521	2.53031	-	1.28602	-	0.02308	0.08965	9.99	7.39726	1.18981	-	1.28907	-	0.02308	0.08965
8.01	4.07671	2.53031	-	1.28602	-	0.02308	0.08965	10.24	7.64384	1.18981	-	1.28907	-	0.02308	0.08965
8.86	3.94521	3.16289	-	1.60752	-	0.02885	0.11206	10.64	7.39726	1.48726	-	1.61134	-	0.02885	0.11206
10.95	4.07671	4.42805	-	2.25053	-	0.04039	0.15688	12.18	7.64384	2.08217	-	2.25587	-	0.04039	0.15688
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2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Average

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill \$10 Cust Charge	Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
																Care Discount	Customer Charge	Care Discount	Customer Charge			
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	48.92	37.22	(11.70)	TRUE	1.600	31	50	20%	20%	20%	50%	46	46	0
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	46.02	34.83	(11.19)	TRUE	1.600	28	45	20%	20%	20%	50%	43	43	0
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	45.62	40.14	(5.48)	TRUE	0.874	31	27	20%	20%	20%	50%	38	27	11
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	32.29	27.05	(5.25)	TRUE	0.874	30	26	20%	20%	20%	50%	28	26	2
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	28.01	27.21	(0.80)	TRUE	0.424	31	13	20%	20%	20%	50%	21	13	8
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	25.19	24.28	(0.91)	TRUE	0.424	30	13	20%	20%	20%	50%	19	13	6
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	21.07	20.28	(0.79)	TRUE	0.424	31	13	20%	20%	20%	50%	16	13	3
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	19.01	18.23	(0.78)	TRUE	0.424	31	13	20%	20%	20%	50%	15	13	2
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	20.51	19.61	(0.90)	TRUE	0.424	30	13	20%	20%	20%	50%	16	13	3
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	24.07	23.28	(0.79)	TRUE	0.424	31	13	20%	20%	20%	50%	18	13	5
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	26.77	22.45	(4.32)	TRUE	0.874	30	26	20%	20%	20%	50%	23	23	0
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	39.69	31.13	(8.55)	TRUE	1.600	31	50	20%	20%	20%	50%	36	36	0

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264		0.493150685	0.37181619	1.212929222		0.073235844	0.00577	0.022411264
48.92	4.07671	28.87783	-	14.67698	-	0.26341	1.02310	37.22	7.64384	13.57902	-	14.71184	-	0.26341	1.02310
46.02	3.68219	27.26500	-	13.85728	-	0.24870	0.96596	34.83	6.90411	12.82064	-	13.89019	-	0.24870	0.96596
45.62	4.07671	17.07961	11.05073	12.33135	-	0.22131	0.85959	40.14	7.64384	8.03123	11.01844	12.36064	-	0.22131	0.85959
32.29	3.94521	16.44703	2.06569	9.04153	-	0.16227	0.63026	27.05	7.39726	7.73378	2.05965	9.06301	-	0.16227	0.63026
28.01	4.07671	8.22352	8.20981	6.89176	-	0.12369	0.48041	27.21	7.64384	3.86689	8.18582	6.90813	-	0.12369	0.48041
25.19	3.94521	8.22352	6.23297	6.23869	-	0.11197	0.43488	24.28	7.39726	3.86689	6.21476	6.25351	-	0.11197	0.43488
21.07	4.07671	8.22352	3.10379	5.20493	-	0.09341	0.36282	20.28	7.64384	3.86689	3.09472	5.21729	-	0.09341	0.36282
19.01	4.07671	8.22352	1.59136	4.70528	-	0.08445	0.32799	18.23	7.64384	3.86689	1.58671	4.71645	-	0.08445	0.32799
20.51	3.94521	8.22352	2.79042	5.10140	-	0.09155	0.35561	19.61	7.39726	3.86689	2.78227	5.11352	-	0.09155	0.35561
24.07	4.07671	8.22352	5.31710	5.93612	-	0.10653	0.41379	23.28	7.64384	3.86689	5.30157	5.95022	-	0.10653	0.41379
26.77	3.94521	14.69827	-	7.47031	-	0.13407	0.52074	22.45	7.39726	6.91147	-	7.48805	-	0.13407	0.52074
39.69	4.07671	22.93298	-	11.65555	-	0.20918	0.81248	31.13	7.64384	10.78362	-	11.68323	-	0.20918	0.81248
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2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Median

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill \$10 Cust Charge	Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
																Care Discount	Customer Charge	Care Discount	Customer Charge			
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	40.42	31.62	(8.80)	TRUE	1.600	31	50	20%	20%	20%	50%	37	37	0
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	39.04	30.23	(8.82)	TRUE	1.600	28	45	20%	20%	20%	50%	36	36	0
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	37.21	31.74	(5.47)	TRUE	0.874	31	27	20%	20%	20%	50%	32	27	5
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	27.52	22.95	(4.57)	TRUE	0.874	30	26	20%	20%	20%	50%	24	24	0
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	24.78	23.99	(0.79)	TRUE	0.424	31	13	20%	20%	20%	50%	19	13	6
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	22.01	21.10	(0.90)	TRUE	0.424	30	13	20%	20%	20%	50%	17	13	4
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	18.17	17.39	(0.78)	TRUE	0.424	31	13	20%	20%	20%	50%	14	13	1
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	16.85	16.07	(0.78)	TRUE	0.424	31	13	20%	20%	20%	50%	13	13	0
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	18.04	17.14	(0.90)	TRUE	0.424	30	13	20%	20%	20%	50%	14	13	1
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	20.81	20.03	(0.79)	TRUE	0.424	31	13	20%	20%	20%	50%	16	13	3
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	24.57	21.00	(3.57)	TRUE	0.874	30	26	20%	20%	20%	50%	21	21	0
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	32.56	26.43	(6.13)	TRUE	1.600	31	50	20%	20%	20%	50%	29	29	0

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264		0.493150685	0.37181619	1.212929222		0.073235844	0.00577	0.022411264
40.42	4.07671	23.40539	-	11.89565	-	0.21349	0.82922	31.62	7.64384	11.00576	-	11.92390	-	0.21349	0.82922
39.04	3.68219	22.77281	-	11.57415	-	0.20772	0.80681	30.23	6.90411	10.70831	-	11.60164	-	0.20772	0.80681
37.21	4.07671	17.07961	4.86594	10.28813	-	0.18464	0.71716	31.74	7.64384	8.03123	4.85172	10.31257	-	0.18464	0.71716
27.52	3.94521	15.18188	-	7.71610	-	0.13848	0.53787	22.95	7.39726	7.13887	-	7.73442	-	0.13848	0.53787
24.78	4.07671	8.22352	5.83912	6.10858	-	0.10963	0.42581	23.99	7.64384	3.86689	5.82206	6.12309	-	0.10963	0.42581
22.01	3.94521	8.22352	3.89275	5.46557	-	0.09809	0.38099	21.10	7.39726	3.86689	3.88137	5.47855	-	0.09809	0.38099
18.17	4.07671	8.22352	0.97319	4.50106	-	0.08078	0.31376	17.39	7.64384	3.86689	0.97034	4.51175	-	0.08078	0.31376
16.85	4.07671	8.22352	-	4.17955	-	0.07501	0.29135	16.07	7.64384	3.86689	-	4.18948	-	0.07501	0.29135
18.04	3.94521	8.22352	0.97319	4.50106	-	0.08078	0.31376	17.14	7.39726	3.86689	0.97034	4.51175	-	0.08078	0.31376
20.81	4.07671	8.22352	2.91956	5.14406	-	0.09232	0.35858	20.03	7.64384	3.86689	2.91103	5.15628	-	0.09232	0.35858
24.57	3.94521	13.28414	-	6.75159	-	0.12117	0.47064	21.00	7.39726	6.24651	-	6.76762	-	0.12117	0.47064
32.56	4.07671	18.34477	-	9.32362	-	0.16733	0.64993	26.43	7.64384	8.62614	-	9.34576	-	0.16733	0.64993
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2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Average

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill \$10 Cust Charge	Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
																Care Discount	Customer Charge	Care Discount	Customer Charge			
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	108.75	95.51	(13.24)	TRUE	1.600	31	50	20%	20%	20%	50%	92	50	42
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	100.80	88.89	(11.91)	TRUE	1.600	28	45	20%	20%	20%	50%	85	45	40
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	94.10	88.54	(5.56)	TRUE	0.874	31	27	20%	20%	20%	50%	75	27	48
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	65.20	59.90	(5.30)	TRUE	0.874	30	26	20%	20%	20%	50%	53	26	27
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	49.92	49.09	(0.83)	TRUE	0.424	31	13	20%	20%	20%	50%	38	13	25
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	45.82	44.88	(0.94)	TRUE	0.424	30	13	20%	20%	20%	50%	35	13	22
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	38.01	37.20	(0.81)	TRUE	0.424	31	13	20%	20%	20%	50%	29	13	16
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	35.37	34.56	(0.81)	TRUE	0.424	31	13	20%	20%	20%	50%	27	13	14
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	37.88	36.95	(0.93)	TRUE	0.424	30	13	20%	20%	20%	50%	29	13	16
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	43.30	42.48	(0.82)	TRUE	0.424	31	13	20%	20%	20%	50%	33	13	20
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	51.97	46.70	(5.28)	TRUE	0.874	30	26	20%	20%	20%	50%	43	26	17
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	84.94	71.74	(13.20)	TRUE	1.600	31	50	20%	20%	20%	50%	74	50	24

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264		0.493150685	0.37181619	1.212929222		0.073235844	0.00577	0.022411264
108.75	4.07671	31.62891	40.87386	29.57837	-	0.53084	2.06184	95.51	7.64384	14.87265	40.75442	29.64863	-	0.53084	2.06184
100.80	3.68219	28.46602	38.92748	27.32785	-	0.49045	1.90496	88.89	6.90411	13.38538	38.81374	27.39275	-	0.49045	1.90496
94.10	4.07671	17.07961	46.71298	24.11280	-	0.43275	1.68084	88.54	7.64384	8.03123	46.57648	24.17008	-	0.43275	1.68084
65.20	3.94521	16.44703	26.27605	17.03972	-	0.30581	1.18780	59.90	7.39726	7.73378	26.19927	17.08019	-	0.30581	1.18780
49.92	4.07671	8.22352	24.32968	12.21715	-	0.21926	0.85163	49.09	7.64384	3.86689	24.25858	12.24617	-	0.21926	0.85163
45.82	3.94521	8.22352	21.41012	11.25264	-	0.20195	0.78439	44.88	7.39726	3.86689	21.34755	11.27937	-	0.20195	0.78439
38.01	4.07671	8.22352	15.57099	9.32362	-	0.16733	0.64993	37.20	7.64384	3.86689	15.52549	9.34576	-	0.16733	0.64993
35.37	4.07671	8.22352	13.62462	8.68061	-	0.15579	0.60510	34.56	7.64384	3.86689	13.58481	8.70123	-	0.15579	0.60510
37.88	3.94521	8.22352	15.57099	9.32362	-	0.16733	0.64993	36.95	7.39726	3.86689	15.52549	9.34576	-	0.16733	0.64993
43.30	4.07671	8.22352	19.46374	10.60963	-	0.19041	0.73957	42.48	7.64384	3.86689	19.40687	10.63483	-	0.19041	0.73957
51.97	3.94521	16.44703	16.54418	13.82467	-	0.24811	0.96368	46.70	7.39726	7.73378	16.49584	13.85751	-	0.24811	0.96368
84.94	4.07671	31.62891	23.35649	23.79130	-	0.42698	1.65843	71.74	7.64384	14.87265	23.28824	23.84781	-	0.42698	1.65843
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				0.40188											0.40283
				0.40188											0.40283

SoCalGas Residential Bill Impact

Customer Charge \$ 5 \$ 15

 \$15 Cust
 Charge,
 \$5 Cust 50% CARE
 Charge, Discount
 20% CARE on Cust
 Discount Charge

G-CP \$/th G-CP \$/th =

INPUT:

Customer Charge \$/day =	\$0.16438	\$0.49315
BL Rate \$/th =	\$0.79072	\$0.37182
NBL Rate \$/th =	\$1.21648	\$1.21293
PPPS Non-CARE \$/th =	\$0.07831	\$0.07324
G-SRF \$/th =	\$0.00577	\$0.00577
PPPS CARE \$/th =	\$0.02241	\$0.02241

1/1/2022	0.40188	0.402835
2/1/2022	0.40188	0.402835
3/1/2022	0.40188	0.402835
4/1/2022	0.40188	0.402835
5/1/2021	0.40188	0.402835
6/1/2021	0.40188	0.402835
7/1/2021	0.40188	0.402835
8/1/2021	0.40188	0.402835
9/1/2021	0.40188	0.402835
10/1/2021	0.40188	0.402835
11/1/2021	0.40188	0.402835
12/1/2021	0.40188	0.402835
	0.40188	0.402835

**SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP**

CARE Bill Impact Calculations

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

2024 TCAP
 Bill Impact Calculations

TCAP CARE Bill Impact Graph Data								15	20
50% vol and customer count Usage				CARE Discount - Cust Charge				20%	50%
Usage				CARE Discount				20%	20%
\$5 Cust Charge, 20% CARE Discount	\$20 Cust Charge, 50% CARE Discount	\$5 Cust Charge, 20% CARE Discount	\$20 Cust Charge, 50% CARE Discount	\$5 Cust Charge, 20% CARE Discount	\$20 Cust Charge, 50% CARE Discount	\$5 Cust Charge, 20% CARE Discount	\$20 Cust Charge, 50% CARE Discount		
January	2.05		(19.51)		(12.71)		(17.11)		
February	1.45		(17.55)		(12.79)		(16.40)		
March	2.05		(7.84)		(7.64)		(7.67)		
April	2.87		(7.43)		(6.29)		(7.32)		
May	3.57		(0.61)		(0.53)		(0.54)		
June	3.37		(0.80)		(0.71)		(0.73)		
July	4.08		(0.57)		(0.50)		(0.51)		
August	4.08		(0.56)		(0.50)		(0.51)		
September	3.88		(0.77)		(0.70)		(0.71)		
October	4.08		(0.59)		(0.51)		(0.52)		
November	3.37		(7.39)		(4.77)		(5.90)		
December	2.55		(19.43)		(8.64)		(12.33)		
Average	3.12		(6.92)		(4.69)		(5.85)		

2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Lowest 10 Percentile

CARE	revmo	Customers	Average Therms	Avg	Avg Non	High (90th	Median	Low (10th	Total Bill			Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
				Baseline Therms	Baseline Therms	Percentile) Therms	Therms	Percentile)	Total Bill Status Quo	\$20 Cust Charge	Delta					Care Discount	Care Discount - Customer	Care Discount	Care Discount - Customer			
Yes	1	1,750,275	46	35	10	92	37	8	11.93	13.98	2.05	TRUE	1.600	31	50	20%	20%	20%	50%	8	8	0
Yes	2	1,762,765	43	34	9	85	36	8	11.54	12.99	1.45	TRUE	1.600	28	45	20%	20%	20%	50%	8	8	0
Yes	3	1,770,705	38	32	6	75	32	8	11.93	13.98	2.05	TRUE	0.874	31	27	20%	20%	20%	50%	8	8	0
Yes	4	1,782,822	28	26	2	53	24	6	9.84	12.70	2.87	TRUE	0.874	30	26	20%	20%	20%	50%	6	6	0
Yes	5	1,800,018	21	18	3	38	19	5	8.99	12.56	3.57	TRUE	0.424	31	13	20%	20%	20%	50%	5	5	0
Yes	6	1,803,972	19	11	8	35	17	5	8.86	12.23	3.37	TRUE	0.424	30	13	20%	20%	20%	50%	5	5	0
Yes	7	1,813,785	16	10	6	29	14	4	8.01	12.09	4.08	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0
Yes	8	1,821,982	15	10	5	27	13	4	8.01	12.09	4.08	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0
Yes	9	1,830,888	16	10	6	29	14	4	7.87	11.76	3.88	TRUE	0.424	30	13	20%	20%	20%	50%	4	4	0
Yes	10	1,824,865	18	11	8	33	16	4	8.01	12.09	4.08	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0
Yes	11	1,804,430	23	16	8	43	21	5	8.86	12.23	3.37	TRUE	0.874	30	26	20%	20%	20%	50%	5	5	0
Yes	12	1,791,172	36	27	9	74	29	7	10.95	13.51	2.55	TRUE	1.600	31	50	20%	20%	20%	50%	7	7	0
									9.57													

2024 TCAP
 Bill Impact Calculations

Customer Charge				BL Rate \$/th	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Customer Charge				BL Rate \$/th	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
Total Bill 1	\$/day =			=						Total Bill 2	\$/day =			=					
	0.164383562	0.7907227	1.216483862				0.07830578	0.00577	0.022411264		0.657534247	0.15289997	1.208912659				0.07144259	0.00577	0.022411264
11.93	4.07671	5.06063	-		2.57203	-	0.04616	0.17929		13.98	10.19178	0.97856	-		2.58412	-	0.04616	0.17929	
11.54	3.68219	5.06063	-		2.57203	-	0.04616	0.17929		12.99	9.20548	0.97856	-		2.58412	-	0.04616	0.17929	
11.93	4.07671	5.06063	-		2.57203	-	0.04616	0.17929		13.98	10.19178	0.97856	-		2.58412	-	0.04616	0.17929	
9.84	3.94521	3.79547	-		1.92902	-	0.03462	0.13447		12.70	9.86301	0.73392	-		1.93809	-	0.03462	0.13447	
8.99	4.07671	3.16289	-		1.60752	-	0.02885	0.11206		12.56	10.19178	0.61160	-		1.61508	-	0.02885	0.11206	
8.86	3.94521	3.16289	-		1.60752	-	0.02885	0.11206		12.23	9.86301	0.61160	-		1.61508	-	0.02885	0.11206	
8.01	4.07671	2.53031	-		1.28602	-	0.02308	0.08965		12.09	10.19178	0.48928	-		1.29206	-	0.02308	0.08965	
8.01	4.07671	2.53031	-		1.28602	-	0.02308	0.08965		12.09	10.19178	0.48928	-		1.29206	-	0.02308	0.08965	
8.01	4.07671	2.53031	-		1.28602	-	0.02308	0.08965		12.09	10.19178	0.48928	-		1.29206	-	0.02308	0.08965	
8.86	3.94521	3.16289	-		1.60752	-	0.02885	0.11206		12.23	9.86301	0.61160	-		1.61508	-	0.02885	0.11206	
10.95	4.07671	4.42805	-		2.25053	-	0.04039	0.15688		13.51	10.19178	0.85624	-		2.26111	-	0.04039	0.15688	
					G-CP \$/th =										G-CP \$/th =				
					0.40188										0.40377				
					0.40188										0.40377				
					0.40188										0.40377				
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					0.40188										0.40377				

2024 TCAP
Bill Impact Calculations

CARE Bill Impacts Average

CARE	revmo	Customers	Avg			High (90th Percentile)	Median	Low (10th Percentile)	Total Bill Status Quo	Total Bill \$10		Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
			Average Therms	Baseline Therms	Avg Non Baseline Therms					Customer Discount - Care	Customer Discount - Care											
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	48.92	31.81	(17.11)	TRUE	1.600	31	50	20%	20%	20%	50%	46	46	0
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	46.02	29.61	(16.40)	TRUE	1.600	28	45	20%	20%	20%	50%	43	43	0
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	45.62	37.95	(7.67)	TRUE	0.874	31	27	20%	20%	20%	50%	38	27	11
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	32.29	24.97	(7.32)	TRUE	0.874	30	26	20%	20%	20%	50%	28	26	2
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	28.01	27.47	(0.54)	TRUE	0.424	31	13	20%	20%	20%	50%	21	13	8
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	25.19	24.46	(0.73)	TRUE	0.424	30	13	20%	20%	20%	50%	19	13	6
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	21.07	20.55	(0.51)	TRUE	0.424	31	13	20%	20%	20%	50%	16	13	3
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	19.01	18.50	(0.51)	TRUE	0.424	31	13	20%	20%	20%	50%	15	13	2
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	20.51	19.80	(0.71)	TRUE	0.424	30	13	20%	20%	20%	50%	16	13	3
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	24.07	23.55	(0.52)	TRUE	0.424	31	13	20%	20%	20%	50%	18	13	5
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	26.77	20.87	(5.90)	TRUE	0.874	30	26	20%	20%	20%	50%	23	23	0
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	39.69	27.36	(12.33)	TRUE	1.600	31	50	20%	20%	20%	50%	36	36	0

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264
48.92	4.07671	28.87783	-	14.67698	-	0.26341	1.02310
46.02	3.68219	27.26500	-	13.85728	-	0.24870	0.96596
45.62	4.07671	17.07961	11.05073	12.33135	-	0.22131	0.85959
32.29	3.94521	16.44703	2.06569	9.04153	-	0.16227	0.63026
28.01	4.07671	8.22352	8.20981	6.89176	-	0.12369	0.48041
25.19	3.94521	8.22352	6.23297	6.23869	-	0.11197	0.43488
21.07	4.07671	8.22352	3.10379	5.20493	-	0.09341	0.36282
19.01	4.07671	8.22352	1.59136	4.70528	-	0.08445	0.32799
20.51	3.94521	8.22352	2.79042	5.10140	-	0.09155	0.35561
24.07	4.07671	8.22352	5.31710	5.93612	-	0.10653	0.41379
26.77	3.94521	14.69827	-	7.47031	-	0.13407	0.52074
39.69	4.07671	22.93298	-	11.65555	-	0.20918	0.81248

G-CP \$/th =

- 0.40188
- 0.40188
- 0.40188
- 0.40188
- 0.40188
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- 0.40188
- 0.40188

Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.657534247	0.15289997	1.208912659		0.07144259	0.00577	0.022411264
31.81	10.19178	5.58403	-	14.74598	-	0.26341	1.02310
29.61	9.20548	5.27216	-	13.92242	-	0.24870	0.96596
37.95	10.19178	3.30264	10.98196	12.38932	-	0.22131	0.85959
24.97	9.86301	3.18032	2.05283	9.08403	-	0.16227	0.63026
27.47	10.19178	1.59016	8.15871	6.92416	-	0.12369	0.48041
24.46	9.86301	1.59016	6.19418	6.26802	-	0.11197	0.43488
20.55	10.19178	1.59016	3.08447	5.22939	-	0.09341	0.36282
18.50	10.19178	1.59016	1.58145	4.72740	-	0.08445	0.32799
19.80	9.86301	1.59016	2.77305	5.12538	-	0.09155	0.35561
23.55	10.19178	1.59016	5.28401	5.96403	-	0.10653	0.41379
20.87	9.86301	2.84217	-	7.50543	-	0.13407	0.52074
27.36	10.19178	4.43449	-	11.71034	-	0.20918	0.81248

G-CP \$/th =

- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377
- 0.40377

2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Median

CARE	revmo	Customers	Average Therms	Avg	Avg Non	High (90th	Low (10th	Total Bill Status Quo	Total Bill \$10 Cust Charge	Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
				Baseline Therms	Baseline Therms	Percentile) Therms	Percentile) Therms								Discount - Customer	Care Discount	Discount - Customer	Care Discount			
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	40.42	27.71	(12.71)	TRUE	1.600	31	50	20%	20%	20%	50%	37	37	0
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	39.04	26.25	(12.79)	TRUE	1.600	28	45	20%	20%	20%	50%	36	36	0
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	37.21	29.57	(7.64)	TRUE	0.874	31	27	20%	20%	20%	50%	32	27	5
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	27.52	21.23	(6.29)	TRUE	0.874	30	26	20%	20%	20%	50%	24	24	0
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	24.78	24.26	(0.53)	TRUE	0.424	31	13	20%	20%	20%	50%	19	13	6
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	22.01	21.29	(0.71)	TRUE	0.424	30	13	20%	20%	20%	50%	17	13	4
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	18.17	17.67	(0.50)	TRUE	0.424	31	13	20%	20%	20%	50%	14	13	1
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	16.85	16.35	(0.50)	TRUE	0.424	31	13	20%	20%	20%	50%	13	13	0
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	18.04	17.34	(0.70)	TRUE	0.424	30	13	20%	20%	20%	50%	14	13	1
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	20.81	20.30	(0.51)	TRUE	0.424	31	13	20%	20%	20%	50%	16	13	3
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	24.57	19.81	(4.77)	TRUE	0.874	30	26	20%	20%	20%	50%	21	21	0
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	32.56	23.92	(8.64)	TRUE	1.600	31	50	20%	20%	20%	50%	29	29	0

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264		0.657534247	0.15289997	1.208912659		0.07144259	0.00577	0.022411264
40.42	4.07671	23.40539	-	11.89565	-	0.21349	0.82922	27.71	10.19178	4.52584	-	11.95157	-	0.21349	0.82922
39.04	3.68219	22.77281	-	11.57415	-	0.20772	0.80681	26.25	9.20548	4.40352	-	11.62856	-	0.20772	0.80681
37.21	4.07671	17.07961	4.86594	10.28813	-	0.18464	0.71716	29.57	10.19178	3.30264	4.83565	10.33649	-	0.18464	0.71716
27.52	3.94521	15.18188	-	7.71610	-	0.13848	0.53787	21.23	9.86301	2.93568	-	7.75237	-	0.13848	0.53787
24.78	4.07671	8.22352	5.83912	6.10858	-	0.10963	0.42581	24.26	10.19178	1.59016	5.80278	6.13729	-	0.10963	0.42581
22.01	3.94521	8.22352	3.89275	5.46557	-	0.09809	0.38099	21.29	9.86301	1.59016	3.86852	5.49126	-	0.09809	0.38099
18.17	4.07671	8.22352	0.97319	4.50106	-	0.08078	0.31376	17.67	10.19178	1.59016	0.96713	4.52222	-	0.08078	0.31376
16.85	4.07671	8.22352	-	4.17955	-	0.07501	0.29135	16.35	10.19178	1.59016	-	4.19920	-	0.07501	0.29135
18.04	3.94521	8.22352	0.97319	4.50106	-	0.08078	0.31376	17.34	9.86301	1.59016	0.96713	4.52222	-	0.08078	0.31376
20.81	4.07671	8.22352	2.91956	5.14406	-	0.09232	0.35858	20.30	10.19178	1.59016	2.90139	5.16825	-	0.09232	0.35858
24.57	3.94521	13.28414	-	6.75159	-	0.12117	0.47064	19.81	9.86301	2.56872	-	6.78332	-	0.12117	0.47064
32.56	4.07671	18.34477	-	9.32362	-	0.16733	0.64993	23.92	10.19178	3.54728	-	9.36745	-	0.16733	0.64993
				G-CP \$/th =								G-CP \$/th =			
				0.40188								0.40377			
				0.40188								0.40377			
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				0.40188								0.40377			

2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Average

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
										Care Discount	Customer Charge					Care Discount	Customer Charge					
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	108.75	89.24	(19.51)	TRUE	1.600	31	50	20%	20%	20%	50%	92	50	42
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	100.80	83.25	(17.55)	TRUE	1.600	28	45	20%	20%	20%	50%	85	45	40
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	94.10	86.26	(7.84)	TRUE	0.874	31	27	20%	20%	20%	50%	75	27	48
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	65.20	57.77	(7.43)	TRUE	0.874	30	26	20%	20%	20%	50%	53	26	27
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	49.92	49.31	(0.61)	TRUE	0.424	31	13	20%	20%	20%	50%	38	13	25
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	45.82	45.02	(0.80)	TRUE	0.424	30	13	20%	20%	20%	50%	35	13	22
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	38.01	37.44	(0.57)	TRUE	0.424	31	13	20%	20%	20%	50%	29	13	16
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	35.37	34.80	(0.56)	TRUE	0.424	31	13	20%	20%	20%	50%	27	13	14
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	37.88	37.11	(0.77)	TRUE	0.424	30	13	20%	20%	20%	50%	29	13	16
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	43.30	42.71	(0.59)	TRUE	0.424	31	13	20%	20%	20%	50%	33	13	20
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	51.97	44.59	(7.39)	TRUE	0.874	30	26	20%	20%	20%	50%	43	26	17
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	84.94	65.51	(19.43)	TRUE	1.600	31	50	20%	20%	20%	50%	74	50	24

2024 TCAP
 Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC Total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264		0.657534247	0.15289997	1.208912659		0.07144259	0.00577	0.022411264
108.75	4.07671	31.62891	40.87386	29.57837	-	0.53084	2.06184	89.24	10.19178	6.11600	40.61947	29.71742	-	0.53084	2.06184
100.80	3.68219	28.46602	38.92748	27.32785	-	0.49045	1.90496	83.25	9.20548	5.50440	38.68521	27.45631	-	0.49045	1.90496
94.10	4.07671	17.07961	46.71298	24.11280	-	0.43275	1.68084	86.26	10.19178	3.30264	46.42225	24.22616	-	0.43275	1.68084
65.20	3.94521	16.44703	26.27605	17.03972	-	0.30581	1.18780	57.77	9.86301	3.18032	26.11251	17.11982	-	0.30581	1.18780
49.92	4.07671	8.22352	24.32968	12.21715	-	0.21926	0.85163	49.31	10.19178	1.59016	24.17825	12.27459	-	0.21926	0.85163
45.82	3.94521	8.22352	21.41012	11.25264	-	0.20195	0.78439	45.02	9.86301	1.59016	21.27686	11.30554	-	0.20195	0.78439
38.01	4.07671	8.22352	15.57099	9.32362	-	0.16733	0.64993	37.44	10.19178	1.59016	15.47408	9.36745	-	0.16733	0.64993
35.37	4.07671	8.22352	13.62462	8.68061	-	0.15579	0.60510	34.80	10.19178	1.59016	13.53982	8.72142	-	0.15579	0.60510
37.88	3.94521	8.22352	15.57099	9.32362	-	0.16733	0.64993	37.11	9.86301	1.59016	15.47408	9.36745	-	0.16733	0.64993
43.30	4.07671	8.22352	19.46374	10.60963	-	0.19041	0.73957	42.71	10.19178	1.59016	19.34260	10.65951	-	0.19041	0.73957
51.97	3.94521	16.44703	16.54418	13.82467	-	0.24811	0.96368	44.59	9.86301	3.18032	16.44121	13.88966	-	0.24811	0.96368
84.94	4.07671	31.62891	23.35649	23.79130	-	0.42698	1.65843	65.51	10.19178	6.11600	23.21112	23.90314	-	0.42698	1.65843
				G-CP \$/th =								G-CP \$/th =			
				0.40188								0.40377			
				0.40188								0.40377			
				0.40188								0.40377			
				0.40188								0.40377			
				0.40188								0.40377			
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				0.40188								0.40377			
				0.40188								0.40377			

SoCalGas Residential Bill Impact

Customer Charge \$ 5 \$ 20

 \$5 Cust \$20 Cust
 Charge, Charge,
 20% CARE 50% CARE
 Discount Discount

G-CP \$/th G-CP \$/th =

INPUT:

Customer Charge \$/day =	\$0.16438	\$0.65753
BL Rate \$/th =	\$0.79072	\$0.15290
NBL Rate \$/th =	\$1.21648	\$1.20891
PPPS Non-CARE \$/th =	\$0.07831	\$0.07144
G-SRF \$/th =	\$0.00577	\$0.00577
PPPS CARE \$/th =	\$0.02241	\$0.02241

1/1/2022	0.40188	0.403769
2/1/2022	0.40188	0.403769
3/1/2022	0.40188	0.403769
4/1/2022	0.40188	0.403769
5/1/2021	0.40188	0.403769
6/1/2021	0.40188	0.403769
7/1/2021	0.40188	0.403769
8/1/2021	0.40188	0.403769
9/1/2021	0.40188	0.403769
10/1/2021	0.40188	0.403769
11/1/2021	0.40188	0.403769
12/1/2021	0.40188	0.403769
	0.40188	0.403769

**SOUTHERN CALIFORNIA GAS COMPANY
2024 TCAP**

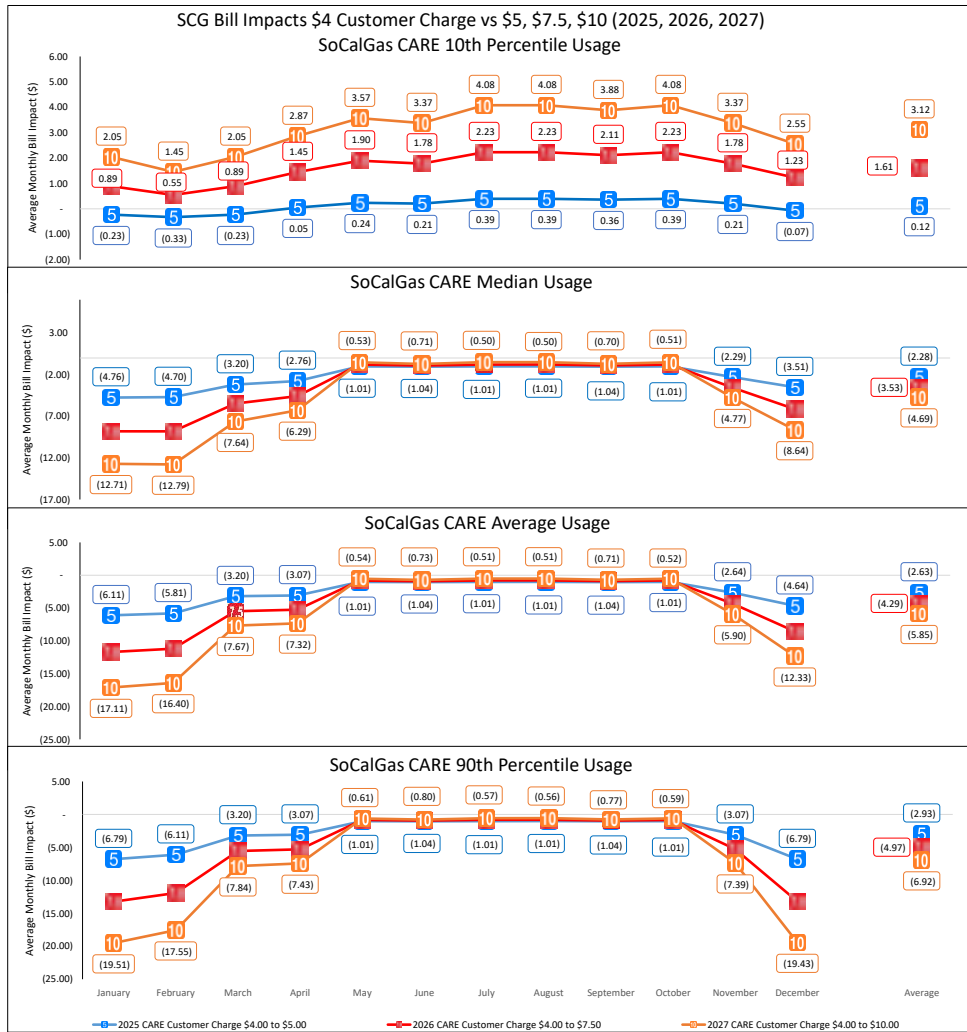
CARE Bill Impact Calculations

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

2024 TCAP
Bill Impact Calculations

TCAP CARE Bill Impact Graph Data

Usage	CARE Discount - Cust Charge								Current			
	2025 CARE Customer Charge \$4.00 to \$5.00		2026 CARE Customer Charge \$4.00 to \$7.50		2026 CARE Customer Charge \$4.00 to \$5.00		2026 CARE Customer Charge \$4.00 to \$7.50		2027 CARE Customer Charge \$4.00 to \$10.00		Median use \$4.00 to \$10.00	Average use \$4.00 to \$10.00
	10% use \$4.00 to \$5.00	10% use \$4.00 to \$7.50	Charge \$4.00 to \$5.00	Charge \$4.00 to \$7.50	Median use \$4.00 to \$5.00	Median use \$4.00 to \$7.50	Average use \$4.00 to \$5.00	Average use \$4.00 to \$7.50	10% use \$4.00 to \$10.00	Customer Charge \$4.00 to \$10.00	Median use \$4.00 to \$10.00	Average use \$4.00 to \$10.00
January	(0.23)	0.89	(6.79)	(13.24)	(4.76)	(8.80)	(6.11)	(11.70)	2.05	(19.51)	(12.71)	(17.11)
February	(0.33)	0.55	(6.11)	(11.91)	(4.70)	(8.82)	(5.81)	(11.19)	1.45	(17.55)	(12.79)	(16.40)
March	(0.23)	0.89	(3.20)	(5.56)	(3.20)	(5.47)	(3.20)	(5.48)	2.05	(7.84)	(7.64)	(7.67)
April	0.05	1.45	(3.07)	(5.30)	(2.76)	(4.57)	(3.07)	(5.25)	2.87	(7.43)	(6.29)	(7.32)
May	0.24	1.90	(1.01)	(0.83)	(1.01)	(0.79)	(1.01)	(0.80)	3.57	(0.61)	(0.53)	(0.54)
June	0.21	1.78	(1.04)	(0.94)	(1.04)	(0.90)	(1.04)	(0.91)	3.37	(0.80)	(0.71)	(0.73)
July	0.39	2.23	(1.01)	(0.81)	(1.01)	(0.78)	(1.01)	(0.79)	4.08	(0.57)	(0.50)	(0.51)
August	0.39	2.23	(1.01)	(0.81)	(1.01)	(0.78)	(1.01)	(0.78)	4.08	(0.56)	(0.50)	(0.51)
September	0.36	2.11	(1.04)	(0.93)	(1.04)	(0.90)	(1.04)	(0.90)	3.88	(0.77)	(0.70)	(0.71)
October	0.39	2.23	(1.01)	(0.82)	(1.01)	(0.79)	(1.01)	(0.79)	4.08	(0.59)	(0.51)	(0.52)
November	0.21	1.78	(3.07)	(5.28)	(2.29)	(3.57)	(2.64)	(4.32)	3.37	(7.39)	(4.77)	(5.90)
December	(0.07)	1.23	(6.79)	(13.20)	(3.51)	(6.13)	(4.64)	(8.55)	2.55	(19.43)	(8.64)	(12.33)
Average	0.12	1.61	(2.93)	(4.97)	(2.28)	(3.53)	(2.63)	(4.29)	3.12	(6.92)	(4.69)	(5.85)



2024 TCAP
Bill Impact Calculations

CARE Bill Impacts Lowest 10 Percentile

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1 Care	Bill 2	Bill 2 Care	Monthly Therms	Baseline Usage	Non BL Usage
										Care Discount	Discount - Customer Charge						Care Discount	Discount - Customer Charge					
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	11.93	11.71	(0.23)	TRUE	1.600	31	50	20%	20%	20%	50%	8	8	0	
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	11.54	11.21	(0.33)	TRUE	1.600	28	45	20%	20%	20%	50%	8	8	0	
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	11.93	11.71	(0.23)	TRUE	0.874	31	27	20%	20%	20%	50%	8	8	0	
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	9.84	9.89	0.05	TRUE	0.874	30	26	20%	20%	20%	50%	6	6	0	
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	8.99	9.23	0.24	TRUE	0.424	31	13	20%	20%	20%	50%	5	5	0	
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	8.86	9.06	0.21	TRUE	0.424	30	13	20%	20%	20%	50%	5	5	0	
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	8.01	8.40	0.39	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0	
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	8.01	8.40	0.39	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0	
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	7.87	8.24	0.36	TRUE	0.424	30	13	20%	20%	20%	50%	4	4	0	
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	8.01	8.40	0.39	TRUE	0.424	31	13	20%	20%	20%	50%	4	4	0	
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	8.86	9.06	0.21	TRUE	0.874	30	26	20%	20%	20%	50%	5	5	0	
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	10.95	10.88	(0.07)	TRUE	1.600	31	50	20%	20%	20%	50%	7	7	0	
									9.57		0.12												
											0.01												

2024 TCAP
Bill Impact Calculations

Total Bill 1	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge \$/day =	BL Rate \$/th =	NBL Rate \$/th =	GPC total \$	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
	0.164383562	0.7907227	1.216483862		0.07830578	0.00577	0.022411264		0.328767123	0.59543755	1.216200508		0.075122192	0.00577	0.022411264
11.93	4.07671	5.06063	-	2.57203	-	0.04616	0.17929	11.71	5.09589	3.81080	-	2.57311	-	0.04616	0.17929
11.54	3.68219	5.06063	-	2.57203	-	0.04616	0.17929	11.21	4.60274	3.81080	-	2.57311	-	0.04616	0.17929
11.93	4.07671	5.06063	-	2.57203	-	0.04616	0.17929	11.71	5.09589	3.81080	-	2.57311	-	0.04616	0.17929
9.84	3.94521	3.79547	-	1.92902	-	0.03462	0.13447	9.89	4.93151	2.85810	-	1.92983	-	0.03462	0.13447
8.99	4.07671	3.16289	-	1.60752	-	0.02885	0.11206	9.23	5.09589	2.38175	-	1.60819	-	0.02885	0.11206
8.86	3.94521	3.16289	-	1.60752	-	0.02885	0.11206	9.06	4.93151	2.38175	-	1.60819	-	0.02885	0.11206
8.01	4.07671	2.53031	-	1.28602	-	0.02308	0.08965	8.40	5.09589	1.90540	-	1.28656	-	0.02308	0.08965
8.01	4.07671	2.53031	-	1.28602	-	0.02308	0.08965	8.40	5.09589	1.90540	-	1.28656	-	0.02308	0.08965
7.87	3.94521	2.53031	-	1.28602	-	0.02308	0.08965	8.24	4.93151	1.90540	-	1.28656	-	0.02308	0.08965
8.01	4.07671	2.53031	-	1.28602	-	0.02308	0.08965	8.40	5.09589	1.90540	-	1.28656	-	0.02308	0.08965
8.86	3.94521	3.16289	-	1.60752	-	0.02885	0.11206	9.06	4.93151	2.38175	-	1.60819	-	0.02885	0.11206
10.95	4.07671	4.42805	-	2.25053	-	0.04039	0.15688	10.88	5.09589	3.33445	-	2.25147	-	0.04039	0.15688
				G-CP \$/th =								G-CP \$/th =			
				0.40188								0.40205			
				0.40188								0.40205			
				0.40188								0.40205			
				0.40188								0.40205			
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				0.40188								0.40205			

2024 TCAP
Bill Impact Calculations

CARE Bill Impacts Median

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
										Discount	Customer Charge					Discount - Customer Charge	Discount - Customer Charge					
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	40.42	35.66	(4.76)	TRUE	1.600	31	50	20%	20%	20%	50%	37	37	0
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	39.04	34.34	(4.70)	TRUE	1.600	28	45	20%	20%	20%	50%	36	36	0
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	37.21	34.02	(3.20)	TRUE	0.874	31	27	20%	20%	20%	50%	32	27	5
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	27.52	24.76	(2.76)	TRUE	0.874	30	26	20%	20%	20%	50%	24	24	0
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	24.78	23.77	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	19	13	6
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	22.01	20.96	(1.04)	TRUE	0.424	30	13	20%	20%	20%	50%	17	13	4
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	18.17	17.16	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	14	13	1
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	16.85	15.84	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	13	13	0
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	18.04	16.99	(1.04)	TRUE	0.424	30	13	20%	20%	20%	50%	14	13	1
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	20.81	19.80	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	16	13	3
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	24.57	22.28	(2.29)	TRUE	0.874	30	26	20%	20%	20%	50%	21	21	0
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	32.56	29.05	(3.51)	TRUE	1.600	31	50	20%	20%	20%	50%	29	29	0

2024 TCAP
Bill Impact Calculations

Customer Charge				BL Rate \$/th	NBL Rate \$/th =	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Customer Charge				BL Rate \$/th	NBL Rate \$/th =	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
Total Bill 1	\$/day =	=			GPC Total \$				Total Bill 2	\$/day =	=			GPC Total \$			
	0.164383562	0.7907227	1.216483862			0.07830578	0.00577	0.022411264		0.328767123	0.59543755	1.216200508			0.075122192	0.00577	0.022411264
40.42	4.07671	23.40539	-	11.89565	-	0.21349	0.82922		35.66	5.09589	17.62495	-	11.90064	-	0.21349	0.82922	
39.04	3.68219	22.77281	-	11.57415	-	0.20772	0.80681		34.34	4.60274	17.14860	-	11.57900	-	0.20772	0.80681	
37.21	4.07671	17.07961	4.86594	10.28813	-	0.18464	0.71716		34.02	5.09589	12.86145	4.86480	10.29245	-	0.18464	0.71716	
27.52	3.94521	15.18188	-	7.71610	-	0.13848	0.53787		24.76	4.93151	11.43240	-	7.71933	-	0.13848	0.53787	
24.78	4.07671	8.22352	5.83912	6.10858	-	0.10963	0.42581		23.77	5.09589	6.19255	5.83776	6.11114	-	0.10963	0.42581	
22.01	3.94521	8.22352	3.89275	5.46557	-	0.09809	0.38099		20.96	4.93151	6.19255	3.89184	5.46786	-	0.09809	0.38099	
18.17	4.07671	8.22352	0.97319	4.50106	-	0.08078	0.31376		17.16	5.09589	6.19255	0.97296	4.50295	-	0.08078	0.31376	
16.85	4.07671	8.22352	-	4.17955	-	0.07501	0.29135		15.84	5.09589	6.19255	-	4.18131	-	0.07501	0.29135	
18.04	3.94521	8.22352	0.97319	4.50106	-	0.08078	0.31376		16.99	4.93151	6.19255	0.97296	4.50295	-	0.08078	0.31376	
20.81	4.07671	8.22352	2.91956	5.14406	-	0.09232	0.35858		19.80	5.09589	6.19255	2.91888	5.14622	-	0.09232	0.35858	
24.57	3.94521	13.28414	-	6.75159	-	0.12117	0.47064		22.28	4.93151	10.00335	-	6.75442	-	0.12117	0.47064	
32.56	4.07671	18.34477	-	9.32362	-	0.16733	0.64993		29.05	5.09589	13.81415	-	9.32753	-	0.16733	0.64993	
				G-CP \$/th =									G-CP \$/th =				
				0.40188									0.40205				
				0.40188									0.40205				
				0.40188									0.40205				
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2024 TCAP
Bill Impact Calculations

CARE Bill Impacts Average

CARE	revmo	Customers	Average Therms	Avg Baseline Therms	Avg Non Baseline Therms	High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
										Care Discount	Care Discount - Customer Charge						Care Discount	Care Discount - Customer Charge					
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	48.92	42.81	(6.11)	TRUE	1.600	31	50	20%	20%	20%	50%	46	46	0	
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	46.02	40.21	(5.81)	TRUE	1.600	28	45	20%	20%	20%	50%	43	43	0	
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	45.62	42.42	(3.20)	TRUE	0.874	31	27	20%	20%	20%	50%	38	27	11	
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	32.29	29.22	(3.07)	TRUE	0.874	30	26	20%	20%	20%	50%	28	26	2	
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	28.01	27.00	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	21	13	8	
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	25.19	24.14	(1.04)	TRUE	0.424	30	13	20%	20%	20%	50%	19	13	6	
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	21.07	20.05	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	16	13	3	
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	19.01	18.00	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	15	13	2	
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	20.51	19.46	(1.04)	TRUE	0.424	30	13	20%	20%	20%	50%	16	13	3	
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	24.07	23.06	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	18	13	5	
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	26.77	24.13	(2.64)	TRUE	0.874	30	26	20%	20%	20%	50%	23	23	0	
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	39.69	35.05	(4.64)	TRUE	1.600	31	50	20%	20%	20%	50%	36	36	0	

2024 TCAP
 Bill Impact Calculations

Customer Charge				BL Rate \$/th	NBL Rate \$/th =	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Total Bill 2	Customer Charge				BL Rate \$/th	NBL Rate \$/th =	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
Total Bill 1	\$/day =			=		GPC Total \$				\$/day =				GPC Total \$				
	0.164383562	0.7907227	1.216483862				0.07830578	0.005777	0.022411264		0.328767123	0.59543755	1.216200508		0.075122192	0.005777	0.022411264	
48.92	4.07671	28.87783	-		14.67698	-	0.26341	1.02310	42.81	5.09589	21.74586	-		14.68314	-	0.26341	1.02310	
46.02	3.68219	27.26500	-		13.85728	-	0.24870	0.96596	40.21	4.60274	20.53135	-		13.86309	-	0.24870	0.96596	
45.62	4.07671	17.07961	11.05073		12.33135	-	0.22131	0.85959	42.42	5.09589	12.86145	11.04816		12.33653	-	0.22131	0.85959	
32.29	3.94521	16.44703	2.06569		9.04153	-	0.16227	0.63026	29.22	4.93151	12.38510	2.06521		9.04532	-	0.16227	0.63026	
28.01	4.07671	8.22352	8.20981		6.89176	-	0.12369	0.48041	27.00	5.09589	6.19255	8.20789		6.89465	-	0.12369	0.48041	
25.19	3.94521	8.22352	6.23297		6.23869	-	0.11197	0.43488	24.14	4.93151	6.19255	6.23152		6.24131	-	0.11197	0.43488	
21.07	4.07671	8.22352	3.10379		5.20493	-	0.09341	0.36282	20.05	5.09589	6.19255	3.10306		5.20711	-	0.09341	0.36282	
19.01	4.07671	8.22352	1.59136		4.70528	-	0.08445	0.32799	18.00	5.09589	6.19255	1.59098		4.70725	-	0.08445	0.32799	
20.51	3.94521	8.22352	2.79042		5.10140	-	0.09155	0.35561	19.46	4.93151	6.19255	2.78977		5.10354	-	0.09155	0.35561	
24.07	4.07671	8.22352	5.31710		5.93612	-	0.10653	0.41379	23.06	5.09589	6.19255	5.31587		5.93861	-	0.10653	0.41379	
26.77	3.94521	14.69827	-		7.47031	-	0.13407	0.52074	24.13	4.93151	11.06823	-		7.47344	-	0.13407	0.52074	
39.69	4.07671	22.93298	-		11.65555	-	0.20918	0.81248	35.05	5.09589	17.26921	-		11.66044	-	0.20918	0.81248	
							G-CP \$/th =									G-CP \$/th =		
							0.40188									0.40205		
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2024 TCAP
 Bill Impact Calculations

CARE Bill Impacts Average

CARE	revmo	Customers	Average Therms	Avg		High (90th Percentile) Therms	Median Therms	Low (10th Percentile) Therms	Total Bill Status Quo	Total Bill		Delta	Care (T/F)	Daily BL Limit	Days/ Month	Monthly BL Limit	Care Discount	Bill 1	Bill 1	Bill 2	Bill 2	Monthly Therms	Baseline Usage	Non BL Usage
				Discount - Customer Charge	Care Discount					Discount - Customer Charge	Discount - Customer Charge													
Yes	1	1,750,275	45.651	35.2958	10.3552	92	37	8	108.75	101.96	(6.79)	TRUE	1.600	31	50	20%	20%	20%	50%	92	50	42		
Yes	2	1,762,765	43.1014	34.2245	8.8768	85	36	8	100.80	94.69	(6.11)	TRUE	1.600	28	45	20%	20%	20%	50%	85	45	40		
Yes	3	1,770,705	38.3552	31.8584	6.4969	75	32	8	94.10	90.90	(3.20)	TRUE	0.874	31	27	20%	20%	20%	50%	75	27	48		
Yes	4	1,782,822	28.1226	25.7923	2.3303	53	24	6	65.20	62.13	(3.07)	TRUE	0.874	30	26	20%	20%	20%	50%	53	26	27		
Yes	5	1,800,018	21.436	17.9495	3.4865	38	19	5	49.92	48.91	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	38	13	25		
Yes	6	1,803,972	19.4047	11.025	8.3798	35	17	5	45.82	44.77	(1.04)	TRUE	0.424	30	13	20%	20%	20%	50%	35	13	22		
Yes	7	1,813,785	16.1893	10.3294	5.8599	29	14	4	38.01	37.00	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	29	13	16		
Yes	8	1,821,982	14.6352	9.5561	5.0791	27	13	4	35.37	34.36	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	27	13	14		
Yes	9	1,830,888	15.8673	10.2626	5.6046	29	14	4	37.88	36.84	(1.04)	TRUE	0.424	30	13	20%	20%	20%	50%	29	13	16		
Yes	10	1,824,865	18.4636	10.8347	7.6314	33	16	4	43.30	42.29	(1.01)	TRUE	0.424	31	13	20%	20%	20%	50%	33	13	20		
Yes	11	1,804,430	23.2355	15.6067	7.6293	43	21	5	51.97	48.90	(3.07)	TRUE	0.874	30	26	20%	20%	20%	50%	43	26	17		
Yes	12	1,791,172	36.2532	27.2925	8.9587	74	29	7	84.94	78.15	(6.79)	TRUE	1.600	31	50	20%	20%	20%	50%	74	50	24		

2024 TCAP
Bill Impact Calculations

Customer Charge				BL Rate \$/th	NBL Rate \$/th =	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =	Customer Charge				BL Rate \$/th	NBL Rate \$/th =	PPPS Non-CARE \$/th =	G-SRF \$/th =	PPPS CARE \$/th =
Total Bill 1	\$/day =	=			GPC Total \$				Total Bill 2	\$/day =	=			GPC Total \$			
108.75	0.164383562	0.7907227	1.216483862		29.57837	0.07830578	0.00577	0.022411264	101.96	0.328767123	0.59543755	1.216200508		29.59078	0.075122192	0.00577	0.022411264
100.80	4.07671	31.62891	40.87386		27.32785	-	0.53084	2.06184	94.69	4.60274	21.43575	38.91842		27.33931	-	0.53084	2.06184
94.10	4.07671	17.07961	46.71298		24.11280	-	0.43275	1.68084	90.90	5.09589	12.86145	46.70210		24.12292	-	0.43275	1.68084
65.20	3.94521	16.44703	26.27605		17.03972	-	0.30581	1.18780	62.13	4.93151	12.38510	26.26993		17.04686	-	0.30581	1.18780
49.92	4.07671	8.22352	24.32968		12.21715	-	0.21926	0.85163	48.91	5.09589	6.19255	24.32401		12.22228	-	0.21926	0.85163
45.82	3.94521	8.22352	21.41012		11.25264	-	0.20195	0.78439	44.77	4.93151	6.19255	21.40513		11.25736	-	0.20195	0.78439
38.01	4.07671	8.22352	15.57099		9.32362	-	0.16733	0.64993	37.00	5.09589	6.19255	15.56737		9.32753	-	0.16733	0.64993
35.37	4.07671	8.22352	13.62462		8.68061	-	0.15579	0.60510	34.36	5.09589	6.19255	13.62145		8.68425	-	0.15579	0.60510
37.88	3.94521	8.22352	15.57099		9.32362	-	0.16733	0.64993	36.84	4.93151	6.19255	15.56737		9.32753	-	0.16733	0.64993
43.30	4.07671	8.22352	19.46374		10.60963	-	0.19041	0.73957	42.29	5.09589	6.19255	19.45921		10.61409	-	0.19041	0.73957
51.97	3.94521	16.44703	16.54418		13.82467	-	0.24811	0.96368	48.90	4.93151	12.38510	16.54033		13.83048	-	0.24811	0.96368
84.94	4.07671	31.62891	23.35649		23.79130	-	0.42698	1.65843	78.15	5.09589	23.81750	23.35105		23.80128	-	0.42698	1.65843
G-CP \$/th =									G-CP \$/th =								
0.40188									0.40205								
0.40188									0.40205								
0.40188									0.40205								
0.40188									0.40205								
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0.40188									0.40205								

SoCalGas Residential Bill Impact

Customer Charge \$ 5 \$ 10

\$10 Cust
Charge, 50%
CARE

\$5 Cust Charge, Discount on
20% CARE Customer
Discount Charge

INPUT:

Customer Charge \$/day =	\$0.16438	\$0.32877
BL Rate \$/th =	\$0.79072	\$0.59544
NBL Rate \$/th =	\$1.21648	\$1.21620
PPPS Non-CARE \$/th =	\$0.07831	\$0.07512
G-SRF \$/th =	\$0.00577	\$0.00577
PPPS CARE \$/th =	\$0.02241	\$0.02241

	G-CP \$/th	G-CP \$/th =
1/1/2022	0.40188	0.402049
2/1/2022	0.40188	0.402049
3/1/2022	0.40188	0.402049
4/1/2022	0.40188	0.402049
5/1/2021	0.40188	0.402049
6/1/2021	0.40188	0.402049
7/1/2021	0.40188	0.402049
8/1/2021	0.40188	0.402049
9/1/2021	0.40188	0.402049
10/1/2021	0.40188	0.402049
11/1/2021	0.40188	0.402049
12/1/2021	0.40188	0.402049
	0.40188	0.402049

**SAN DIEGO GAS & ELECTRIC
2024 TCAP**

**Section 2
NGV Compression Rate Adder Model**

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

2024 TCAP

NGV Compression Adder Revenue Requirement

NGV Station Costs \$000's	Total Public & Private Access		Public Access Station		Data Source
	\$000's/yr	\$/th	\$000's/yr	\$/th	
NGV Station Rate Base	\$2,693	\$2.86	\$1,325	\$2.81	Return tab
Rate of Return %	7.55%		7.55%		Return tab
Return on Ratebase	\$203	\$0.22	\$100	\$0.21	
Income Taxes	\$114	\$0.12	\$56	\$0.12	Return Tab
Ad Valorem Taxes	\$404	\$0.43	\$199	\$0.42	Return Tab
Depreciation Expense	\$415	\$0.44	\$204	\$0.43	NGV Dept
Capital Related Revenue Requirement	\$1,136	\$1.21	\$559	\$1.19	
NGV Station Throughput in THERMS	940,555		470,847		
O&M Expense \$/th = \$0.330	\$310	\$0.33	\$155	\$0.33	NGV Dept
Electricity Expense \$/th = \$0.090	\$85	\$0.09	\$42	\$0.09	NGV Dept
Public Electricity Expense \$/th = \$0.080					
Customer Related O&M	\$395	\$0.42	\$198	\$0.42	
Effective NGV Station Revenue Requirement	\$1,531	\$1.63	\$757	\$1.61	
Total NGV Station Throughput in therms	940,555		470,847		NGV Dept
Compression Throughput Mth/year	941	941	471	471	
Compression Rate \$/therm	\$1.63		\$1.6077		
Sempra Wide Compressor Adder \$/therm			\$0.92010		SDGE RD model/Rate tables

2024 TCAP

Calculation of Capital Related costs

Calculation of NGV Station Capital related Costs	Total Public & Private Access \$000's/yr	Public Access Station \$000's/yr	Data Source	Notes
NBV of NGV Stations	\$4,236	\$2,084	Recorded 2021	
Total NBV of Utility Gas Plant in Service	<u>\$2,859,228</u>	<u>\$2,859,228</u>	Net Plant	Updated from FERC form 2021
NBV Ratio	0.15%	0.07%		
Total Utility Rate Base	\$1,818,078	\$1,818,078	Recorded 2021	Updated from Accounting
NBV Ratio	<u>0.15%</u>	<u>0.07%</u>		
NGV Station Ratebase	\$2,693	\$1,325		
Total Utility Income & CNG Fuel taxes	\$76,921	\$76,921	FERC Form 1 p. 262, lines 9+17+21 (e)	Updated from FERC form 2021
NBV Ratio	<u>0.15%</u>	<u>0.07%</u>		
NGV Station Income & CNG Fuel taxes	\$114	\$56		
Total Utility AdValorem taxes	\$273,000	\$273,000	FERC Form 1 p. 262, lines 2,3, 4 (e)	Updated from FERC form 2021
NBV Ratio	<u>0.15%</u>	<u>0.07%</u>		
NGV Station Income & CNG Fuel taxes	\$404	\$199		

Calculation of Authorized ROR% and Total Return on Ratebase:

	Capital Ratio	Rate	ROR%		
Long-Term Debt	45.25%	4.59%	2.08%	FERC Form 1 p. 123.22, cost of capital section	Updated from FERC form 2021
Preferred Stock	2.75%	6.22%	0.17%		
Common Equity	52.00%	10.20%	5.30%		
Total ROR%	<u>100%</u>		7.55%		

2024 TCAP

Subtotal Net Utility Plant - Gas	\$2,457,278
Common plant	\$1,652,073
Percentage of Common plant assigned to gas	24%
Subtotal of Common Plant assigned to gas	\$401,949
Applicable Net Plant - Gas	\$2,859,228

Data Source

FERC Form 1 p. 201, Column d Line 15

FERC Form 1 p. 201, Column h Line 15

FERC Form 1 p. 356.1

**SAN DIEGO GAS & ELECTRIC
2020 TCAP**

**Section 3
Submeter Credit Model**

**Workpapers to the Prepared Written Testimony of
Sharim Chaudhury**

Submetering Avoided Cost Credit -GT

>> For mobile home parks supplied through one meter and submetered to all individual units (Schedule GT).
 >> Due to Use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter Capital and O&M Expenses.
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M + Average No. of Subunits Per Master Meter)
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 186, As Filed w/Scaling.

**SDG&E GT Submeter Discount
 2024 TCAP Illustrative Rates**

	Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per GT Master Meter (\$/cst/yr.)	Source
Plant Costs			
1 Service/Regulation/Meter	\$202.44	\$202.41	1 SDGE LPMC Customer Cost
2 Distribution Main (High Pressure)	\$47.79	\$47.79	2 SDGE LPMC Distribution
3 Net Annual Cost/Space	\$250.23	\$250.19	3 SDGE LPMC Customer Cost
Customer Expenses			
4 O&M	\$43.21	\$54.62	4 SDGE LPMC Customer Cost
5 O&M Loaders	\$23.32	\$29.48	5 SDGE LPMC Customer Cost
6 Net Customer Expenses	\$66.53	\$84.09	6 SDGE LPMC Customer Cost
7 Subtotal - Annual Costs	\$316.76	\$334.29	7
8 x EPAM Scaling Factor	98.94%	98.94%	8 SDGE Cost Allocation
9 = Avoided / Incurred Cost / Yr	\$313.39	\$330.74	9
10 + Number Months / Year	12	12	10
11 = Avoided / Incurred Cost / Mo	\$26.12	\$27.56	11
12 + Avg No. of Subunits Per Master Meter Account	1	116	12 Recorded 2016
13 = Incurred Cost Per Living Unit for Master Meter		\$0.24	13
14 Net Avoided Cost/ Month	\$25.88		14
15 - SDG&E Monthly Cust Charge	\$0.00		15 << Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.
16 Submeter Credit/ Month	\$25.88		16
17 x Number Months / Year	12		17
18 Submeter Credit / Year	\$310.56		18
19 + Number Days / Year	365		19
20 = Submeter Credit/ Day	\$0.85085		20
21			21
Net Avoided Cost/ Month	\$25.88		1 << Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.
2 - SDG&E Monthly Cust/Min Charge	\$0.00		2
3 Submeter Credit/ Month	\$25.88		3
4 x Number Months / Year	12		4
5 Submeter Credit / Year	\$310.56		5
6 + Number Days / Year	365		6
7 = Submeter Credit/ Day	\$0.85085		7

Submetering Avoided Cost Credit - GS

>> For multi-family dwelling units supplied through one meter and submetered to all individual units (Schedule GS).
 >> Due to Use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter Capital and O&M Expenses.
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M + Average No. of Subunits Per Master Meter)
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 186, As Filed w/Scaling.

**SDG&E GS Submeter Discount
 2024 TCAP Phase Illustrative Rates**

	Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per GS Master Meter (\$/cst/yr.)		Source
Plant Costs				
1 Service/Regulation/Meter	\$202.44	\$202.41	1	SDGE LRMCM Customer Cost
2 Distribution Main (High Pressure)	\$47.79	\$47.79	2	SDGE LRMCM Distribution
3 Net Annual Cost/Space	\$250.23	\$250.19	3	SDGE LRMCM Customer Cost
Customer Expenses				
4 O&M	\$43.21	\$54.62	4	SDGE LRMCM Customer Cost
5 O&M Loaders	\$23.32	\$29.48	5	SDGE LRMCM Customer Cost
6 Net Customer Expenses	\$66.53	\$84.09	6	SDGE LRMCM Customer Cost
7 Subtotal - Annual Costs	\$316.76	\$334.29	7	
8 x EPAM Scaling Factor	98.94%	98.94%	8	SDGE Cost Allocation
9 = Avoided / Incurred Cost / Yr	\$313.39	\$330.74	9	
10 + Number Months / Year	12	12	10	
11 = Avoided / Incurred Cost / Mo	\$26.12	\$27.56	11	
12 + Avg No. of Subunits Per Master Meter Account	1	26	12	Recorded 2016
13 = Incurred Cost Per Living Unit for Master Meter		\$1.05	13	
14 Net Avoided Cost / Month	\$25.07		14	<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.
15 - SDG&E Monthly Cust Charge	\$0.00		15	
16 Submeter Credit / Month	\$25.07		16	
17 x Number Months / Year	12		17	
18 Submeter Credit / Year	\$300.84		18	
19 + Number Days / Year	365		19	
20 = Submeter Credit / Day	\$0.82422		20	
21 Net Avoided Cost / Month	\$25.07		21	
22 - SDG&E Monthly Cust Charge	\$0.00		22	
23 Submeter Credit / Month	\$25.07		23	
24 x Number Months / Year	12		24	
25 Submeter Credit / Year	\$300.84		25	
26 + Number Days / Year	365		26	
27 = Submeter Credit / Day	\$0.82422		27	
28 Net Avoided Cost / Month	\$25.07		28	
29 - SDG&E Monthly Cust Charge	\$0.00		29	
30 Submeter Credit / Month	\$25.07		30	
31 x Number Months / Year	12		31	
32 Submeter Credit / Year	\$300.84		32	
33 + Number Days / Year	365		33	
34 = Submeter Credit / Day	\$0.82422		34	