

**SOUTHERN CALIFORNIA GAS COMPANY  
2024TCAP**

**Section 1  
Long Run Marginal Customer Cost Model**

**Workpapers to the Prepared Written Testimony of  
Marjorie Schmidt-Pines**

**Errata (Redlined) - September 8, 2023**

SCG 2024 TCAP  
 LRMC Customer Cost/Rental Method  
 RD Format

Corrected		Residential	CCI	G-AC	G-GEN	NGV	Total Core
	<b><u>Marginal Customer Unit Cost @ various LRMC Allocation Methods</u></b>						
1	Customer Cust \$/Cust/Year Rental Method	\$288.38	\$1,603.52	\$10,373.53	\$15,497.85	\$43,623.37	
2	Customer Cost \$/Cust/Year NCO Method	\$159.43	\$831.28	\$4,473.91	\$5,684.67	\$37,922.59	
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$271.76	\$1,057.23	\$5,629.17	\$9,330.16	\$39,831.51	

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2	<b><u>Input from O&amp;M Loader Model:</u></b>						
3	Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	87.20%	SCG LRMC O&M Loaders				
4	General Plant Loading Factor as a % of O&M expenses	86.83%	SCG LRMC O&M Loaders				
5	Annualized Distribution Customer Related Costs \$000/yr	\$1,807,161	SCG LRMC O&M Loaders				
6							
7	2021-24 Factor: Capital General Plant	0.9874	SCG LRMC O&M Loaders				
8	2021-24 Factor: O&M	1.0809	SCG LRMC O&M Loaders				

SCG 2024 TCAP  
 LRMC Customer Cost/Rental Method  
 RD Format

Corrected		NCCI	EG Tier 1	EG Tier 2	EOR	Total Retail NonCore	Long Beach	SDG&E	South West Gas	Vernon
	<b><u>Marginal Customer Unit Cost @ various LRMC Allocation Methods</u></b>									
1	Customer Cust \$/Cust/Year Rental Method	\$67,851.57	\$32,230.78	\$207,138.21	\$91,610.84		\$1,174,227.71	\$2,615,750.06	\$789,930.02	\$641,584.88
2	Customer Cost \$/Cust/Year NCO Method	\$25,685.23	\$20,578.04	\$68,605.03	\$34,008.27		\$246,637.98	\$231,542.60	\$305,655.23	\$178,378.16
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$33,613.08	\$23,539.61	\$92,284.35	\$42,018.90		\$741,549.32	\$1,503,625.80	\$564,037.87	\$425,520.03

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- 2 **Input from O&M Loader Model:**
- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- 4 General Plant Loading Factor as a % or O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 6
- 7 2021-24 Factor: Capital General Plant
- 8 2021-24 Factor: O&M

SCG 2024 TCAP  
 LRMC Customer Cost/Rental Method  
 RD Format

Corrected		Total Whole sale	Ecogas	UBS	Total Noncore	SYSTEM TOTAL	Sources
	<b><u>Marginal Customer Unit Cost @ various LRMC Allocation Methods</u></b>						
1	Customer Cust \$/Cust/Year Rental Method		\$169,574.86	\$0.00			Cust MC
2	Customer Cost \$/Cust/Year NCO Method		\$101,400.99	\$0.00			Cust MC
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$137,774.85	\$0.00	\$3,620,083.66		Cust MC

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- 2 **Input from O&M Loader Model:**
- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- 4 General Plant Loading Factor as a % of O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 6
- 7 2021-24 Factor: Capital General Plant
- 8 2021-24 Factor: O&M

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	Core Residential										Core Non-Residential						Noncore Retail				
	Single Family (Detached homes)	Multi Family	Master Meter (up to 100,000 therms/year)		Residential Total or Avg.	Commercial/Industrial					Average	Air Conditioning	Natural Gas Vehicle	Gas Engine	G-30 - Noncore C&I			Small EG < 3million	Large EG > 3million		
			Very Small - up to 300 therms/year	Small - 301 to 3,000 therms/year		Medium - 3,001 to 50,000 therms/year	Large - 50,001 to 250,000 therms/year	Very Large - Over 250,000 therms/year	Distribution	Transmission					Total						
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Marginal Investment: 2021 \$/Customer	\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22	\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01		
Meter & House Reg Service Lines	\$1,156.49	\$1,241.99	\$11,727.95	\$93,892.86	\$1,406.66	\$8,393.24	\$8,646.46	\$12,753.10	\$51,902.21	\$708,154.59	\$11,009.79	\$79,085.45	\$88,095.97	\$205,325.53	\$383,335.44	#####	\$410,998.74	\$190,284.47	\$466,096.97		
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$320,861.60		
Total	\$1,688.13	\$1,688.13	\$13,443.57	\$117,426.80	\$1,936.79	\$9,132.43	\$9,865.20	\$15,180.67	\$60,238.53	\$720,437.43	\$12,388.50	\$84,402.52	\$178,300.01	\$208,702.74	\$548,487.11	#####	\$587,618.19	\$294,166.14	\$1,703,116.58		
Weighted RECC factors used to annualize SRM capital costs																					
Meter & House Reg Service Lines	8.65%	8.65%	8.56%	8.48%	8.66%	8.61%	8.61%	8.57%	8.55%	8.56%	8.75%	8.54%	8.46%	8.53%	8.45%	8.46%	8.46%	8.45%	8.45%		
Exclusive Use	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%	9.04%	9.04%	9.04%	9.04%	9.04%		
Annualized Marginal Investment: \$/Cust.	\$45.97	\$38.60	\$146.93	\$1,996.05	\$45.90	\$63.67	\$104.97	\$207.95	\$712.37	\$1,051.23	\$120.65	\$453.91	\$7,629.65	\$288.02	\$11,806.87	\$25,391.76	\$12,566.07	\$8,781.40	\$77,462.20		
Meter & House Reg Service Lines	\$79.63	\$65.52	\$687.57	\$6,465.33	\$96.86	\$577.95	\$956.38	\$878.16	\$3,573.91	\$48,762.51	\$758.12	\$5,445.71	\$6,066.16	\$14,138.42	\$26,395.93	\$60,333.40	\$28,300.79	\$13,102.72	\$32,094.77		
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,300.95	\$8,860.38	\$2,532.60	\$0.00	\$28,976.29			
Total Annualized Marginal Investment: 2024 \$/Cust.	\$125.61	\$124.12	\$854.50	\$8,461.38	\$142.76	\$641.62	\$700.35	\$1,086.11	\$4,286.28	\$49,813.74	\$878.76	\$5,899.62	\$13,695.81	\$14,426.44	\$40,603.74	\$114,585.53	\$43,399.46	\$21,884.11	\$138,533.17		
<b>O&amp;M: \$/Customer</b>																					
Customer Services O&M Cost 2021's \$000/year	\$86,027.90	\$40,203.55	\$2,716.25	\$1.16	\$128,948.87	\$4,326.81	\$4,724.93	\$11,943.44	\$854.96	\$224.45	\$22,074.61	\$0.17	\$83.47	\$96.26	\$0.00	\$0.00	\$269.63	\$74.89	\$4.48		
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Customer Services O&M \$/Customer 2021's	\$22.68	\$22.68	\$22.68	\$22.68	\$22.68	\$48.67	\$73.21	\$254.07	\$411.43	\$717.11	\$108.83	\$57.31	\$245.49	\$150.65	\$0.00	\$0.00	\$58.34	\$213.35	\$213.35		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809		
Customer Services O&M \$/Customer 2024's	\$24.52	\$24.52	\$24.52	\$24.52	\$24.52	\$52.61	\$79.13	\$274.62	\$444.70	\$775.09	\$117.63	\$61.94	\$265.34	\$162.83	\$581.86	\$581.86	\$581.86	\$230.60	\$230.60		
Customer Accounts O&M 2013's \$000/yr	\$53,584.51	\$25,041.73	\$1,691.88	\$0.72	\$80,318.84	\$1,111.27	\$687.44	\$5,977.49	\$1,634.40	\$117.62	\$8,057.21	\$4.32	\$284.92	\$48.52	\$0.00	\$0.00	\$897.83	\$604.04	\$36.14		
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Customer Services O&M \$/Customer 2021's	\$14.13	\$14.13	\$14.13	\$14.13	\$14.13	\$12.50	\$16.65	\$127.16	\$78.63	\$375.77	\$39.72	\$1,439.04	\$838.00	\$75.93	\$0.00	\$0.00	\$1,668.83	\$1,720.92	\$1,720.92		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809		
Customer Accounts O&M \$/Customer 2024's	\$15.27	\$15.27	\$15.27	\$15.27	\$15.27	\$13.51	\$11.51	\$137.44	\$84.99	\$406.16	\$42.93	\$1,555.39	\$905.75	\$82.07	\$1,803.76	\$1,803.76	\$1,803.76	\$1,860.06	\$1,860.06		
Meter & House Reg O&M Total Cost	\$5,587.22	\$2,191.17	\$569.29	\$3.33	\$8,351.00	\$3.05	\$3.66	\$5.30	\$0.81	\$0.18	\$13.00	\$0.00	\$0.00	\$0.00	\$19.19	\$19.19	\$62.00	\$513.00	\$61.00		
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Customer Services O&M \$/Customer 2021's	\$1.47	\$1.24	\$4.75	\$65.21	\$1.47	\$0.03	\$0.06	\$0.11	\$0.39	\$0.57	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$115.24	\$1,461.54	\$2,904.76		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809		
Meter & House Reg O&M \$/Customer 2024's	\$1.59	\$1.34	\$5.14	\$70.49	\$1.59	\$0.04	\$0.06	\$0.12	\$0.42	\$0.62	\$0.07	\$0.00	\$0.00	\$0.00	\$124.56	\$124.56	\$124.56	\$1,579.71	\$3,139.62		
Total Service Line Footage	231,707,635	58,800,895	11,613,724	14,016	302,136,270	12,721,655	6,951,318	6,611,352	562,372	116,057	26,962,754	250	60,700	625,863	104,645	16,542	121,188	46,579	16,273		
Percent of Total Footage	70.23%	17.82%	3.52%	0.00%	91.57%	3.86%	2.11%	2.00%	0.17%	0.04%	8.17%	0.00%	0.02%	0.19%	0.03%	0.01%	0.04%	0.01%	0.00%		
Allocated SL O&M Costs \$000	\$1,820	\$8,075	\$1,595	\$2	\$41,492	\$1,747	\$955	\$908	\$77	\$16	\$3,703	\$0	\$8	\$86	\$14	\$2	\$17	\$6	\$2		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809		
Allocated SL O&M Costs 2024's	\$34,395	\$8,728	\$1,724	\$2	\$44,947	\$1,888	\$1,032	\$961	\$83	\$17	\$4,002	\$0	\$9	\$93	\$16	\$2	\$19	\$7	\$2		
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Service Lines O&M \$/Customer 2024's	\$9.07	\$4.92	\$14.40	\$40.79	\$7.89	\$21.24	\$15.99	\$20.88	\$40.17	\$55.04	\$19.73	\$12.36	\$26.50	\$145.38	\$29.93	\$129.23	\$33.44	\$19.70	\$115.02		
Customer Service & Information Cost (CSI) Costs Accounts (FERC Accounts 907 to 910):																					
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Customer Services & Information O&M \$/Customer 2021's	\$3.49	\$3.49	\$3.49	\$3.49	\$3.49	\$9.53	\$9.53	\$9.53	\$5,765.54	\$5,765.54	\$77.38	\$0.00	\$8,978.06	\$0.00	\$0.00	\$0.00	\$5,887.41	\$72.96	\$18,175.54		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809		
Customer Accounts O&M \$/Customer 2024's	\$3.78	\$3.78	\$3.78	\$3.78	\$3.78	\$10.30	\$10.30	\$10.30	\$6,231.70	\$6,231.70	\$83.64	\$0.00	\$9,703.96	\$0.00	\$0.00	\$0.00	\$6,363.42	\$78.86	\$19,645.09		
<b>Total Direct O&amp;M \$/customer/yr</b>	<b>\$54.23</b>	<b>\$49.83</b>	<b>\$63.10</b>	<b>\$154.85</b>	<b>\$53.04</b>	<b>\$97.70</b>	<b>\$116.99</b>	<b>\$443.35</b>	<b>\$6,801.97</b>	<b>\$7,468.59</b>	<b>\$264.00</b>	<b>\$1,629.69</b>	<b>\$10,901.55</b>	<b>\$390.28</b>	<b>\$2,540.11</b>	<b>\$2,639.42</b>	<b>\$8,907.04</b>	<b>\$3,768.92</b>	<b>\$24,990.39</b>		
<b>O&amp;M Loaders: \$/Customer</b>																					
Administrative & General as % of O&M	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%		
Administrative & General \$/customer/yr 2024's	\$47.29	\$43.45	\$55.02	\$135.03	\$46.25	\$85.19	\$102.02	\$386.61	\$5,931.40	\$6,512.70	\$230.21	\$1,421.10	\$9,506.27	\$340.33	\$2,215.01	\$2,301.60	\$7,767.04	\$3,286.54	\$21,791.90		
General Plant as % of O&M	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%		
General Plant \$/customer/yr 2024's	\$47.09	\$43.26	\$54.79	\$134.46	\$46.06	\$84.83	\$101.59	\$384.97	\$5,906.25	\$6,485.08	\$229.24	\$1,415.08	\$9,465.97	\$338.88	\$2,205.61	\$2,291.84	\$7,734.11	\$3,272.61	\$21,699.50		
Materials & Supplies Loader:																					
Per Customer Direct+AA&G+GP O&M \$/customer/yr	\$148.60	\$136.54	\$172.91	\$424.33	\$145.35	\$267.73	\$320.60	\$1,214.94	\$18,639.62	\$20,466.37	\$723.45	\$4,465.87	\$29,873.79	\$1,069.49	\$6,960.73	\$7,232.86	\$24,408.19	\$10,328.08	\$68,481.79		
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
Total Direct+AA&G+GP O&M \$000/yr	\$563,570	\$242,003	\$20,706	\$22	\$826,300	\$23,800	\$20,691	\$57,112	\$38,733	\$6,406	\$146,742	\$13	\$10,157	\$683	\$3,613	\$137	\$13,132	\$3,625	\$1,438		
Percent of Total	56.12%	24.10%	2.06%	0.00%	82.29%	2.37%	2.06%	2.37%	3.86%	0.64%	14.61%	0									

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	Noncore Wholesale						Total O&M Cost for All	Customers	
	Wholesale					International			
	G-40	LB	SDG&E	SWG	Vernon	Ecogas			
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Marginal Investment: 2021 \$/Customer									
Meter & House Reg	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5	
Service Lines	\$274,177.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5	
Exclusive Use Facilities	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82		cust 6	
Total	\$728,828.22	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82			
Weighted RECC factors used to annualize SRM capital costs									
Meter & House Reg	8.45%	0	0	0	0	0		cust 10	
Service Lines	6.89%	6.89%	6.89%	6.89%	6.89%	6.89%		cust 10	
Exclusive Use	9.04%	9.04%	9.04%	9.04%	9.04%	9.04%		cust 10	
Annualized Marginal Investment: \$/Cust.									
Meter & House Reg	\$34,099.74	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Service Lines	\$18,879.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Exclusive Use Facilities	\$4,623.34	\$927,589.73	\$2,384,207.47	\$484,274.79	\$463,206.72	\$68,173.86			
Total Annualized Marginal Investment: 2024 \$/Cust.	\$57,602.56	\$927,589.73	\$2,384,207.47	\$484,274.79	\$463,206.72	\$68,173.86			
<b>O&amp;M: \$/Customer</b>									
Customer Services O&M Cost 2021's \$000/year	\$1.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$151,573.87	cust 8	
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Customer Services O&M \$/Customer 2021's	\$50.03	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25.74		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Customer Services O&M \$/Customer 2024's	\$54.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27.82		
Customer Accounts O&M 2013's \$000/yr	\$50.90	\$6.53	\$5.09	\$10.86	\$3.64	\$2.92	\$90,331.76	cust 8	
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Customer Services O&M \$/Customer 2021's	\$1,696.63	\$6,530.71	\$5,087.00	\$10,861.85	\$3,643.28	\$2,921.42	\$15.34		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Customer Accounts O&M \$/Customer 2024's	\$1,833.81	\$7,058.74	\$5,498.90	\$11,740.07	\$3,937.85	\$3,157.83	\$16.58		
Meter & House Reg O&M Total Cost	\$42.00	\$8.00	\$8.00	\$17.00	\$1.00	\$1.00	\$9,077.00	cust 8	
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Customer Services O&M \$/Customer 2021's	\$1,400.00	\$8,000.00	\$8,000.00	\$17,000.00	\$1,000.00	\$1,000.00	\$1.54		
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Meter & House Reg O&M \$/Customer 2024's	\$1,513.19	\$8,646.82	\$8,646.82	\$18,374.50	\$1,080.85	\$1,080.85	\$1.67		
Total Service									
Line Footage	11,667	0	0	0	0	0	329,934,966	cust 8	
Percent of									
Total Footage	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%		
Allocated SL O&M Costs \$000	\$2	\$0	\$0	\$0	\$0	\$0	\$45,310	cust 8	
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Allocated SL O&M Costs 2024's	\$2	\$0	\$0	\$0	\$0	\$0	\$45,913	cust 2	
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Service Lines O&M \$/Customer 2024's	\$57.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.32		
Customer Service & Information Cost (CSI) Costs Accounts (FERC P									
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Customer Services & Information O&M \$/Customer 2021's	\$8,261.26	\$68,590.22	\$64,946.55	\$75,148.83	\$55,473.00	\$30,252.33	\$7.26	\$0.00	
escalator 2021's to 2024's	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	1.0809	Loader Model	
Customer Accounts O&M \$/Customer 2024's	\$8,929.20	\$74,135.95	\$70,197.67	\$81,224.84	\$59,958.16	\$32,686.32	\$7.84		
<b>Total Direct O&amp;M \$/customer/yr</b>	<b>\$12,388.01</b>	<b>\$89,841.81</b>	<b>\$84,342.79</b>	<b>\$111,339.41</b>	<b>\$64,976.87</b>	<b>\$36,936.80</b>	<b>\$62.22</b>		
<b>O&amp;M Loaders: \$/Customer</b>									
Administrative & General as % of O&M	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	87.20%	cust 4, a&a	
Administrative & General \$/customer/yr 2024's	\$10,802.48	\$78,342.78	\$73,547.84	\$97,089.18	\$56,660.54	\$32,209.30	\$54.25		
General Plant as % of O&M	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	86.83%	cust 4, gen plant	
General Plant \$/customer/yr 2024's	\$10,756.68	\$78,010.63	\$73,236.01	\$96,677.55	\$56,420.31	\$32,072.74	\$54.02		
Materials & Supplies Loader:									
Per Customer Direct+A&G+GP O&M \$/customer/yr	\$33,947.18	\$246,194.92	\$231,126.65	\$305,106.14	\$178,057.72	\$101,218.83			
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
Total Direct+A&G+GP O&M \$000/yr	\$1,018	\$246	\$231	\$305	\$178	\$101	\$1,004,171.13		
Percent of Total	0.10%	0.02%	0.02%	0.03%	0.02%	0.01%	100.00%		
Allocated M&S	\$1,807,161.19	\$443	\$446	\$549	\$320	\$182	\$1,807,161.19	Loader Model	
2021 Number of Customers	30	1	1	1	1	1	5,889,525	cust 2	
M&S Loader \$/customer/yr 2024's	\$61.09	\$443.07	\$445.95	\$549.09	\$320.44	\$182.16	\$0.31		
<b>Total O&amp;M Loaders \$/customer/yr</b>	<b>\$21,620.26</b>	<b>\$156,796.47</b>	<b>\$147,199.80</b>	<b>\$194,316.82</b>	<b>\$113,401.29</b>	<b>\$64,464.19</b>	<b>\$108.59</b>		
<b>LRMC Rental Customer Cost \$/customer/year</b>	<b>\$91,610.84</b>	<b>\$1,174,227.71</b>	<b>\$2,615,750.06</b>	<b>\$789,930.02</b>	<b>\$641,584.88</b>	<b>\$169,574.86</b>	<b>\$170.80</b>		

S10

	Core Residential										Core Non-Residential						Noncore Retail				
	Single Family (Detached homes)	Multi Family	Master Meter (up to 100,000 therms/year)		Residential Total or Avg.	Non-Residential Commercial/Industrial					Average	Air Conditioning	Natural Gas Vehicle	Gas Engine	G-30 - Noncore C&I			Small EG < 3million	Large EG > 3million		
			(100,001 therms per year and greater)			Very Small - up to 300 therms/year	Small - 301 to 3,000 therms/year	Medium - 3,001 to 50,000 therms/year	Large - 50,001 to 250,000 therms/year	Very Large - Over 250,000 therms/year					Distribution	Transmission	Total				
<b>Total Rental Capital (\$000) before RECC</b>					<b>\$11,010,181</b>	<b>\$811,845</b>	<b>\$636,690</b>	<b>\$713,613</b>	<b>\$125,176</b>	<b>\$225,497</b>		<b>\$253</b>	<b>\$60,622</b>	<b>\$133,361</b>	<b>\$284,665</b>	<b>\$29,734</b>	<b>\$316,139</b>	<b>\$103,252</b>	<b>\$35,765</b>		
<b>NCO Method:</b>																					
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	519	19	538	351	21		
New Hookups Rate	0.54%	0.70%	0.19%	0.00%	0.59%	0.77%	0.72%	0.59%	0.35%	0.30%	0.70%	0.00%	3.67%	1.81%	0.19%	0.00%	0.18%	19.20%	0.00%		
No of New Customer Hookups /year	20,562	12,479	233	0	33,262	685	462	277	7	1	1,430	0	12	12	1	0	1	10	0		
Marginal Investment: \$/Customer																					
Meter & House Reg	\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22	\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01		
Service Lines	\$1,156.49	\$1,241.99	\$11,727.95	\$93,892.86	\$1,406.66	\$8,393.24	\$8,646.46	\$12,753.10	\$51,902.21	\$708,154.59	\$11,009.79	\$79,085.45	\$88,095.97	\$205,325.53	\$383,335.44	#####	\$410,998.74	\$190,284.47	\$466,096.97		
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463.15	\$98,052.27	\$28,026.70	\$0.00	\$320,661.60		
Total Marginal Investment \$/customer	\$1,688.13	\$1,688.13	\$13,443.57	\$117,426.80	\$1,936.79	\$9,132.43	\$9,865.20	\$15,180.67	\$60,238.53	\$720,437.43	\$12,388.50	\$84,402.52	\$178,300.01	\$208,702.74	\$548,487.11	#####	\$0.00	\$294,166.14	\$1,703,116.58		
Weighted PVRR for Meter & House Reg	121.48%	121.52%	121.63%	121.93%	121.45%	121.53%	121.50%	121.62%	121.63%	121.58%	121.18%	121.67%	122.04%	121.72%	122.07%	122.05%	122.05%	122.06%	122.06%		
PVCC for Service Lines	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%		
PVRR:																					
Meter & House Reg \$/customer	\$645.85	\$542.14	\$2,066.66	\$28,694.66	\$643.85	\$898.30	\$1,480.78	\$2,952.32	\$10,139.17	\$14,933.84	\$1,670.71	\$6,469.48	\$110,085.50	\$4,110.79	\$170,515.42	\$366,435.20	\$181,354.26	\$126,801.65	\$1,118,539.17		
Service Lines \$/customer	\$1,411.96	\$1,516.35	\$14,318.73	\$114,634.45	\$1,717.40	\$10,247.36	\$10,556.52	\$15,570.35	\$63,367.77	\$864,590.90	\$13,441.93	\$96,555.98	\$107,556.99	\$250,683.38	\$468,016.93	\$1,424,363.20	\$501,791.24	\$232,319.65	\$569,061.06		
PVRR of Hookup Cost \$/customer	\$2,057.81	\$2,058.49	\$16,405.39	\$143,329.10	\$2,361.25	\$11,145.67	\$12,037.30	\$18,522.67	\$73,506.94	\$879,524.75	\$15,112.64	\$103,025.45	\$217,642.48	\$254,794.17	\$638,532.35	#####	\$683,145.50	\$359,121.30	\$1,687,600.23		
Total PVRR of Hookup Cost for Class \$'s	\$42,312,213	\$25,687,597	\$3,823,853	\$0	\$76,540,536	\$7,039,840	\$5,566,074	\$5,137,896	\$541,178	\$931,696	\$21,607,277	\$0	\$2,718,310	\$2,947,876	\$620,598	\$0	\$693,416	\$3,591,213	\$0		
PVRR of Hookup Cost \$/customer	\$11.16	\$14.49	\$31.93	\$0.00	\$13.82	\$86.94	\$86.24	\$109.30	\$260.43	\$2,657.17	\$106.53	\$0.00	\$7,995.03	\$4,613.26	\$1,195.75	\$0.00	\$1,233.11	\$10,231.38	\$0.00		
<b>O&amp;M Cost w/Loaders \$/Cust.</b>																					
Total Direct O&M	\$54.23	\$49.83	\$63.10	\$154.85	\$53.04	\$97.70	\$116.99	\$443.35	\$6,801.97	\$7,468.59	\$264.00	\$1,629.69	\$10,901.55	\$390.28	\$2,540.11	\$2,639.42	\$8,907.04	\$3,768.92	\$24,990.39		
Total O&M Loaders \$/customer/yr	\$94.64	\$86.96	\$110.13	\$270.25	\$92.57	\$170.51	\$204.18	\$773.77	\$11,871.19	\$13,034.61	\$460.75	\$2,844.22	\$19,026.00	\$681.13	\$4,433.15	\$4,606.46	\$15,545.07	\$6,577.74	\$43,614.64		
<b>LRMC NCO Customer Cost \$/customer/year</b>	<b>\$160.02</b>	<b>\$151.28</b>	<b>\$205.16</b>	<b>\$425.09</b>	<b>\$159.43</b>	<b>\$354.15</b>	<b>\$407.42</b>	<b>\$1,326.42</b>	<b>\$18,933.60</b>	<b>\$23,160.38</b>	<b>\$831.28</b>	<b>\$4,473.91</b>	<b>\$37,922.59</b>	<b>\$5,684.67</b>	<b>\$8,169.01</b>	<b>\$7,245.87</b>	<b>\$25,685.23</b>	<b>\$20,578.04</b>	<b>\$68,605.03</b>		
<b>NCO w/ Replacement Cost Adder</b>																					
Marginal Investment: Meter & House Reg \$/Customer	\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22	\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01		
Service Lines Replacement Cost	\$5,453.11	\$5,153.21	\$10,801.80	\$83,525.70	\$5,472.98	\$7,771.50	\$7,831.55	\$11,100.74	\$60,204.80	\$514,112.53	\$9,880.69	\$57,195.30	\$88,369.78	\$196,578.35	\$316,997.27	\$880,789.46	\$336,908.15	\$150,084.47	\$341,323.97		
Exclusive Use Facilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,463.15	\$98,052.27	\$28,026.70	\$0.00	\$320,661.60		
Total	\$1,688.13	\$1,688.13	\$13,443.57	\$117,426.80	\$1,936.79	\$9,132.43	\$9,865.20	\$15,180.67	\$60,238.53	\$720,437.43	\$12,388.50	\$84,402.52	\$178,300.01	\$208,702.74	\$548,487.11	#####	\$0.00	\$294,166.14	\$1,703,116.58		
Weighted PVRR for Meter & House Reg	121.48%	121.52%	121.63%	121.93%	121.45%	121.53%	121.50%	121.62%	121.63%	121.58%	121.18%	121.67%	122.04%	121.72%	122.07%	122.05%	122.05%	122.06%	122.06%		
PVCC for Service Lines	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%		
PVCC for Exclusive Use Facilities (Meters)																					
Weighted Replacement Factor for Meter & House Reg	1.88%	1.64%	1.78%	0.73%	1.96%	1.93%	2.08%	1.82%	1.95%	2.09%	2.75%	1.75%	0.27%	1.54%	0.25%	0.16%	0.24%	0.18%	0.18%		
Replacement Factor for Service Lines	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%		
Replacement Factor for Exclusive Use Facilities																					
Meter & House Reg, Replacement	\$12.13	\$8.87	\$37.04	\$208.34	\$12.60	\$17.37	\$30.85	\$53.77	\$197.90	\$312.28	\$45.90	\$113.02	\$298.60	\$63.34	\$422.13	\$583.86	\$437.29	\$226.66	\$1,999.43		
Service Lines, Replacement	\$99.37	\$93.90	\$196.84	\$1,522.05	\$99.73	\$141.62	\$142.71	\$202.28	\$1,097.08	\$9,368.41	\$180.05	\$1,042.24	\$1,610.32	\$3,582.15	\$5,776.48	\$16,050.18	\$6,139.31	\$2,734.91	\$6,219.77		
Exclusive Use Facilities, Replace															\$1,227.66	\$4,727.41	\$1,351.26	\$0.00	\$15,460.12		
<b>Replacement Adder \$/Customer</b>	<b>\$111.50</b>	<b>\$102.77</b>	<b>\$233.88</b>	<b>\$1,730.38</b>	<b>\$112.33</b>	<b>\$158.98</b>	<b>\$173.56</b>	<b>\$256.06</b>	<b>\$1,294.98</b>	<b>\$9,680.69</b>	<b>\$225.95</b>	<b>\$1,155.26</b>	<b>\$1,908.92</b>	<b>\$3,645.49</b>	<b>\$7,426.27</b>	<b>\$21,361.45</b>	<b>\$7,927.85</b>	<b>\$2,961.58</b>	<b>\$23,879.32</b>		
NCO w/ Repl Cost \$/Cust/yr	\$160.02	\$151.28	\$205.16	\$425.09	\$159.43	\$354.15	\$407.42	\$1,326.42	\$18,933.60	\$23,160.38	\$831.28	\$4,473.91	\$37,922.59	\$5,684.67	\$8,169.01	\$7,245.87	\$25,685.23	\$20,578.04	\$68,605.03		
<b>NCO w/ Repl Cost: \$/Cust/yr</b>	<b>\$271.52</b>	<b>\$254.05</b>	<b>\$439.04</b>	<b>\$2,155.48</b>	<b>\$271.76</b>	<b>\$513.13</b>	<b>\$580.98</b>	<b>\$1,582.48</b>	<b>\$20,228.58</b>	<b>\$32,841.07</b>	<b>\$1,057.23</b>	<b>\$5,629.17</b>	<b>\$39,831.51</b>	<b>\$9,330.16</b>	<b>\$15,595.28</b>	<b>\$28,607.33</b>	<b>\$33,613.08</b>	<b>\$23,539.61</b>	<b>\$92,284.35</b>		

S10

	Noncore Wholesale						Total O&M Cost for All Customers
	EOR	Wholesale				International	
	G-40	LB	SDG&E	SWG	Vernon	Ecogas	
<b>Total Rental Capital (\$000) before RECC</b>	<b>\$21,865</b>	<b>\$10,265</b>	<b>\$26,385</b>	<b>\$5,359</b>	<b>\$5,126</b>	<b>\$754</b>	<b>\$14,556,547</b>
<b><u>NCO Method:</u></b>							
2021 Number of Customers	30	1	1	1	1	1	5,889,525
New Hookups Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	cust 2
No of New Customer Hookups /year	0	0	0	0	0	0	34,727
Marginal Investment: \$/Customer							
Meter & House Reg	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	cust 5
Service Lines	\$274,177.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	cust 5
Exclusive Use Facilities	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82	cust 6, cust 7
<b>Total Marginal Investment \$/customer</b>	<b>\$728,828.22</b>	<b>\$10,265,059.48</b>	<b>\$26,384,543.35</b>	<b>\$5,359,168.35</b>	<b>\$5,126,021.11</b>	<b>\$754,437.82</b>	
Weighted PVRR for Meter & House Reg	122.07%						cust 10
PVCC for Service Lines	122.09%	122.09%	122.09%	122.09%	122.09%	122.09%	2013 RECC
PVRR:							
Meter & House Reg \$/customer	\$492,548.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Service Lines \$/customer	\$334,745.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
PVRR of Hookup Cost \$/customer	\$827,293.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Total PVRR of Hookup Cost for Class S's	\$0	\$0	\$0	\$0	\$0	\$0	
<b>PVRR of Hookup Cost \$/customer</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	
<b><u>O&amp;M Cost w/Loaders \$/Cust.</u></b>							
Total Direct O&M	\$12,388.01	\$89,841.51	\$84,342.79	\$111,339.41	\$64,976.87	\$36,936.80	
Total O&M Loaders \$/customer/yr	\$21,620.26	\$156,796.47	\$147,199.80	\$194,315.82	\$113,401.29	\$64,464.19	
<b>LRMC NCO Customer Cost \$/customer/year</b>	<b>\$34,008.27</b>	<b>\$246,637.98</b>	<b>\$231,542.60</b>	<b>\$305,655.23</b>	<b>\$178,378.16</b>	<b>\$101,400.99</b>	
<b><u>NCO w/ Replacement Cost Adder</u></b>							
Marginal Investment: Meter & House Reg \$/Customer	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	cust 5
Service Lines Replacement Cost	\$266,167.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	cust 5
Exclusive Use Facilities	\$51,163.67	\$10,265,059.48	\$26,384,543.35	\$5,359,168.35	\$5,126,021.11	\$754,437.82	cust 6, cust 7
<b>Total</b>	<b>\$728,828.22</b>	<b>\$10,265,059.48</b>	<b>\$26,384,543.35</b>	<b>\$5,359,168.35</b>	<b>\$5,126,021.11</b>	<b>\$754,437.82</b>	
Weighted PVRR for Meter & House Reg	122.07%						cust 10
PVCC for Service Lines	122%						2013 RECC
PVCC for Exclusive Use Facilities (Meters)	121%	121%	121%	121%	121%	121%	
Weighted Replacement Factor for Meter & House Reg	0.14%						cust 10
Replacement Factor for Service Lines	1.5%						
Replacement Factor for Exclusive Use Facilities	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	cust 10
Meter & House Reg, Replacement	\$693.64						
Service Lines, Replacement	\$4,850.23						
Exclusive Use Facilities, Replace	\$2,466.76	\$494,911.34	\$1,272,083.20	\$258,382.64	\$247,141.87	\$36,373.86	
<b>Replacement Adder \$/Customer</b>	<b>\$8,010.63</b>	<b>\$494,911.34</b>	<b>\$1,272,083.20</b>	<b>\$258,382.64</b>	<b>\$247,141.87</b>	<b>\$36,373.86</b>	
NCO w/o Repl Cost \$/Cust/yr	\$34,008.27	\$246,637.98	\$231,542.60	\$305,655.23	\$178,378.16	\$101,400.99	
<b>NCO w/ Repl Cost: \$/Cust/yr</b>	<b>\$42,018.90</b>	<b>\$741,549.32</b>	<b>\$1,503,625.80</b>	<b>\$564,037.87</b>	<b>\$425,520.03</b>	<b>\$137,774.85</b>	



SCG 2024 TCAP  
 LRMC Customer Cost  
 Number of Customers by Customer Class

S10

	Core														
	Residential					Non-Residential							Gas Air Conditioning	Natrual Gas Vehicle	Gas Engine
	Single Family	Multi Family	Master Meter		Residential Total	G-10					Total				
Small			Large	Very Small		Small	Medium	Large	Very Large						
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313	202,835	3	340	639	

SCG 2024 TCAP  
 LRMC Customer Cost  
 Number of Customers by Custom

S10

	Noncore											Total Over All Customers	
	G-30			Small EG	Large EG	EOR G-40	Wholesale				International		
	Distribution	Transmission	Total				LB	SDG&E	SWG	Vernon	Mexacali		Rosarito
2021 Number of Customers	519	19	538	351	21	30	1	1	1	1	1	0	5,889,525

**SCG 2024 TCAP  
LRMC Customer Cost  
Number of Customers by Customer Class**

**S10**

**1) Residential Segmentation**

**1a) Segmentation of Residential Total Customer Counts into Bands**

	Residential				
	Single Family	Multi Family	Master Meter		Total
			Small	Large	
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763
Percent of Total	67%	31%	2%	0%	100%

values from 'Number of Customers', cust 2 tab

**1b) Segmentation of Residential Meter, Regulator & MSA Investment Costs into Bands**

	Residential				
	Single Family	Multi Family	Master Meter		Total
			Small	Large	
Per Cust. Meter, Reg. & MSA Investment	\$531.64	\$446.14	\$1,715.62	\$23,533.95	
2021 Number of Customers	3,792,575	1,772,390	119,747	51	5,684,763
Total Meter, Reg. & MSA Investment	\$2,016,281,008	\$790,734,870	\$205,440,502	\$1,200,231	\$3,013,656,611
Percent of Total Meter, Reg. & MSA Investment	67%	26%	7%	0%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs  
values from 'Investment Meters, REGs', cust 5 tab

**SCG 2024 TCAP  
LRMC Customer Cost  
Number of Customers by Customer Class**

**2) G10 Segmentation**

**2a) Segmentation of G-10 Total Customer Counts into Bands**

	G-10					
	Very Small	Small	Medium	Large	Very Large	Total
2021 Number of Customers	88,897	64,539	47,008	2,078	313	202,835
Percent of Total	44%	32%	23%	1%	0%	100%

values from 'Number of Customers', cust 2 tab

**2b) Segmentation of G-10 Meter, Regulator & MSA Investment Costs into Bands**

	G-10					
	Very Small	Small	Medium	Large	Very Large	Total
Per Cust. Meter, Reg & MSA Investment	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	
2021 Number of Customers	88,897	64,539	47,008	2,078	313	202,835
Total Meter, Reg & MSA Investment	\$65,711,720	\$78,656,410	\$114,114,980	\$17,322,887	\$3,844,529	\$279,650,527
Percent of Total Meter, Reg & MSA Investment	23%	28%	41%	6%	1%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs  
values from 'Investment Meters, REGs', cust 5 tab

**SCG 2024 TCAP  
LRMC Customer Cost  
Number of Customers by Customer Class**

**3) G 30 Segmentation**

**3a) Segmentation of G-30 total customer counts by Service Level**

	G-30		
	Distribution	Transmission	Total
2021 Number of Customers	519	19	538
Percent of Total	96%	4%	100%

values from 'cust 2' tab

**3b) Allocation of G-30 Total Big GEMS Costs by Service Level**

		G-30		
		Distribution	Transmission	Total
Meter/Reg Investment Cost Per Customer	2013 \$s	\$139,688.52	\$300,242.92	
2021 Number of Customers		519	19	538
Total Cost	2013 \$s	\$72,498,342	\$5,704,615	\$78,202,957
Percent of Total Cost		93%	7%	100%

note: used to segment Meters, Regulators & MSAs O&M Costs  
values from 'Investment Meters, REGs', cust 5 tab

SCG 2024 TCAP  
LRMC Customer Cost  
Average Per Customer Investment in Meters & Regulators by Customer Class

S10

Investment Per Customer:		Core												
		Residential					Non-Residential							
		Single Family	Multi Family	Master Meter		Residential Average	G-10					Gas Air Conditioning	Natural Gas Vehicle	Gas Engine
				Small	Large		Very Small	Small	Medium	Large	Very Large			
Meter, Reg. 2021 \$s	\$508.61	\$426.81	\$1,641.30	\$22,514.50	\$507.16	\$707.17	\$1,165.95	\$2,322.41	\$7,975.21	\$11,750.77	\$1,318.99	\$5,086.75	\$86,296.57	\$3,230.92
Meter, Reg. 2024 \$s	\$531.64	\$446.14	\$1,715.62	\$23,533.95	\$530.13	\$739.19	\$1,218.74	\$2,427.57	\$8,336.33	\$12,282.84	\$1,378.71	\$5,317.08	\$90,204.04	\$3,377.22
<b>Total</b>	<b>\$531.64</b>	<b>\$446.14</b>	<b>\$1,715.62</b>	<b>\$23,533.95</b>	<b>\$530.13</b>	<b>\$739.19</b>	<b>\$1,218.74</b>	<b>\$2,427.57</b>	<b>\$8,336.33</b>	<b>\$12,282.84</b>	<b>\$1,378.71</b>	<b>\$5,317.08</b>	<b>\$90,204.04</b>	<b>\$3,377.22</b>

For Res and Non-Residential G10 customers we multiply 5 yr average meter size and pressure type combination for new customers per class times unit cost for each associated combination.  
For other classes we multiply average meter size and pressure type combination for all customers per class times unit cost for each associated combination.

Average Per Customer Investment in  
Service Lines by Customer Class

Investment Per Customer:		Core												
		Residential					Non-Residential							
		Single Family	Multi Family	Master Meter		Residential Average	G-10					Gas Air Conditioning	Natural Gas Vehicle	Gas Engine
				Small	Large		Very Small	Small	Medium	Large	Very Large			
Service Lines 2021 \$s	\$1,106.39	\$1,188.19	\$11,219.91	\$89,825.59	\$1,345.73	\$8,029.66	\$8,271.91	\$12,200.66	\$49,653.90	\$677,478.66	\$10,532.87	\$75,659.61	\$84,279.82	\$196,431.21
Service Lines 2024 \$s	1,156.49	1,241.99	11,727.95	93,892.86	1,406.66	8,393.24	8,646.46	12,753.10	51,902.21	708,154.59	11,009.79	79,085.45	88,095.97	205,325.53
<b>Total</b>	<b>1,156.49</b>	<b>1,241.99</b>	<b>11,727.95</b>	<b>93,892.86</b>	<b>1,406.66</b>	<b>8,393.24</b>	<b>8,646.46</b>	<b>12,753.10</b>	<b>51,902.21</b>	<b>708,154.59</b>	<b>11,009.79</b>	<b>79,085.45</b>	<b>88,095.97</b>	<b>205,325.53</b>

formerly tabs: 'Investment Meter, Reg' and 'Investment Service Lines'  
For residential and non-residential G10 customers we multiply Ken's 5 yr average footage, pipe type, pipe size configuration per class times Distribution Managers' cost per foot each associated configuration.  
For other classes we multiply average footage, pipe type and pipe size combination for all customers per class times unit cost for each associated combination.

Service Lines Replacement Costs

Investment Per Customer:		Core												
		Residential					Non-Residential							
		Single Family	Multi Family	Master Meter		Residential Average	G-10					Gas Air Conditioning	Natural Gas Vehicle	Gas Engine
				Small	Large		Very Small	Small	Medium	Large	Very Large			
Service Lines Replaceme 2021 \$s	5,216.89	4,929.98	10,333.89	79,907.52	5,235.90	7,434.85	7,492.30	10,619.88	57,596.84	491,842.14	9,452.68	54,717.70	84,541.76	188,062.95
Service Lines 2024 \$s	5,453.11	5,153.21	10,801.80	83,525.70	5,472.98	7,771.50	7,831.55	11,100.74	60,204.80	514,112.53	9,880.69	57,195.30	88,369.78	196,578.35
<b>Total</b>	<b>5,453.11</b>	<b>5,153.21</b>	<b>10,801.80</b>	<b>83,525.70</b>	<b>5,472.98</b>	<b>7,771.50</b>	<b>7,831.55</b>	<b>11,100.74</b>	<b>60,204.80</b>	<b>514,112.53</b>	<b>9,880.69</b>	<b>57,195.30</b>	<b>88,369.78</b>	<b>196,578.35</b>

SCG 2024 TCAP  
LRMC Customer Cost  
Average Per Customer Investment in

S10

		Noncore											Total Over All Customers
		Non-Residential											
		G-30			<3 Million SM. COGEN G-50	>3 Million EG G-50	EOR G-40	Wholesale				International	
<b>Investment Per Customer:</b>		Distribution	Transmission	Average				LB	SDG&E	SWG	Vernon	DGN	Rosarito
Meter, Reg.	2021 \$s	\$133,637.47	\$287,236.96	\$142,155.99	\$99,381.70	\$876,663.09	\$386,008.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Meter, Reg.	2024 \$s	\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Total</b>		\$139,688.52	\$300,242.92	\$148,592.75	\$103,881.66	\$916,358.01	\$403,486.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

For Res and Non-Residential G10 cust  
For other classes we multiply average r

Average Per Customer Investment in  
Service Lines by Customer Class

		Noncore											Total Over All Customers
		Non-Residential											
		G-30			SM. COGEN G-50	EG G-50	EOR G-40	Wholesale				International	
<b>Investment Per Customer:</b>		Distribution	Transmission	Average				LB	SDG&E	SWG	Vernon	DGN	Rosarito
Service Lines	2021 \$s	\$366,730.07	\$1,116,106.66	\$393,195.04	\$182,041.71	\$445,906.52	\$262,300.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Service Lines	2024 \$s	383,335.44	1,166,643.48	410,998.74	190,284.47	466,096.97	274,177.59	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>		383,335.44	1,166,643.48	410,998.74	190,284.47	466,096.97	274,177.59	0.00	0.00	0.00	0.00	0.00	0.00

formerly tabs: 'Investment Meter, Reg' &  
For residential and non-residential G10  
For other classes we multiply average fc

Service Lines Replacement Costs

		Noncore											Total Over All Customers
		Non-Residential											
		G-30			SM. COGEN G-50	EG G-50	EOR G-40	Wholesale				International	
<b>Investment Per Customer:</b>		Distribution	Transmission	Average				LB	SDG&E	SWG	Vernon	DGN	Rosarito
Service Lines Replaceme	2021 \$s	303,265.54	842,635.30	322,313.92	143,583.09	326,538.45	254,637.19	0.00	0.00	0.00	0.00	0.00	0.00
Service Lines	2024 \$s	316,997.27	880,789.46	336,908.15	150,084.47	341,323.97	266,167.05	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>		316,997.27	880,789.46	336,908.15	150,084.47	341,323.97	266,167.05	0.00	0.00	0.00	0.00	0.00	0.00

Code	Element	Meter Size	Above Std	avg labor and nonlabor			Total
				\$/meter	avg \$/meter	avg \$/regulator	
S10	SGL	1	0	\$247	\$118	\$29	\$394
M10	MULT	1	0	\$205	\$118	\$7	\$330
30	AG	3	0	\$259	\$201	\$29	\$489
	CMB	3		\$468	\$201	\$165	\$834
31	LBS	3	1	\$271	\$201	\$320	\$792
S40	SZ	4	0	\$155	\$645	\$263	\$1,063
S50	SZ	5	0	\$155	\$645	\$263	\$1,063
	CMB	4		\$292	\$742	\$286	\$1,320
	CMB	5		\$292	\$742	\$286	\$1,320
41	@LBS	4	1	\$1,652	\$603	\$494	\$2,750
51	@LBS	5	1	\$1,652	\$603	\$494	\$2,750
S60	STD	6	0	\$1,461	\$566	\$263	\$2,290
S70	STD	7	0	\$1,461	\$566	\$263	\$2,290
61	LBS	6	1	\$2,039	\$566	\$320	\$2,925
71	LBS	7	1	\$2,039	\$566	\$320	\$2,925
S80	STD	8	0	\$1,461	\$685	\$311	\$2,457
S90	STD	9	0	\$1,461	\$685	\$311	\$2,457
81	LBS	8	1	\$2,039	\$685	\$710	\$3,434
91	LBS	9	1	\$2,039	\$685	\$710	\$3,434
99	TURBINE METERS	10		\$739,804	\$20,289	\$3,986	\$764,079
100	ROTARY METERS	10		\$5,451	\$4,433	\$3,300	\$13,184
110	ULTRASONIC METERS	12		\$2,506,778	\$88,986	\$0	\$2,595,764



Code	Rate	Meter Size (1)	Above Std (2)	Number of customers (3)	avg labor \$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Average Meter & Regulator CAPEX/
												Customer
S10	SF	1	0	42,231	\$246.69	\$118.12	\$29.15	\$10,417,965	\$4,988,309	\$1,231,034	\$16,637,308	\$393.96
30	SF	3	0	66,495	\$259.47	\$200.78	\$29.15	\$17,253,458	\$13,351,025	\$1,938,329	\$32,542,812	\$489.40
31	SF	3	1	48	\$270.94	\$200.78	\$320.15	\$13,005	\$9,638	\$15,367	\$38,010	\$791.87
S40	SF	4	0	6,938	\$154.88	\$644.79	\$262.99	\$1,074,557	\$4,473,547	\$1,824,625	\$7,372,729	\$1,062.66
41	SF	4	1	61	\$1,651.88	\$603.42	\$494.47	\$100,765	\$36,809	\$30,163	\$167,736	\$2,749.77
S50	SF	5	0	600	\$154.88	\$644.79	\$262.99	\$92,928	\$386,873	\$157,794	\$637,595	\$1,062.66
S60	SF	6	0	556	\$1,461.01	\$566.35	\$262.99	\$812,322	\$314,892	\$146,222	\$1,273,436	\$2,290.35
61	SF	6	1	13	\$2,038.84	\$566.35	\$320.15	\$26,505	\$7,363	\$4,162	\$38,029	\$2,925.34
S70	SF	7	0	2	\$1,461.01	\$566.35	\$262.99	\$2,922	\$1,133	\$526	\$4,581	\$2,290.35
S80	SF	8	0	167	\$1,461.01	\$685.14	\$310.83	\$243,989	\$114,419	\$51,909	\$410,316	\$2,456.98
81	SF	8	1	16	\$2,038.84	\$685.14	\$709.64	\$32,621	\$10,962	\$11,354	\$54,938	\$3,433.62
S90	SF	9	0	3	\$1,461.01	\$685.14	\$310.83	\$4,383	\$2,055	\$932	\$7,371	\$2,456.98
91	SF	9	1	9	\$2,038.84	\$685.14	\$709.64	\$18,350	\$6,166	\$6,387	\$30,903	\$3,433.62
100	SF	10	1	2	\$5,451.00	\$4,433.19	\$3,300.00	\$10,902	\$8,866	\$6,600	\$26,368	\$13,184.19
tot SF				117,141				\$30,104,671	\$23,712,057	\$5,425,404	\$59,242,133	\$505.73
M10	MF	1	0	43,992	\$204.52	\$118.12	\$7.29	\$8,997,244	\$5,196,318	\$320,702	\$14,514,263	\$329.93
30	MF	3	0	13,530	\$259.47	\$200.78	\$29.15	\$3,510,629	\$2,716,586	\$394,400	\$6,621,614	\$489.40
31	MF	3	1	44	\$270.94	\$200.78	\$320.15	\$11,921	\$8,834	\$14,087	\$34,842	\$791.87
S40	MF	4	0	465	\$154.88	\$644.79	\$262.99	\$72,019	\$299,827	\$122,290	\$494,137	\$1,062.66
S60	MF	6	0	17	\$1,461.01	\$566.35	\$262.99	\$24,837	\$9,628	\$4,471	\$38,936	\$2,290.35
61	MF	6	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
81	MF	8	1	7	\$2,038.84	\$685.14	\$709.64	\$14,272	\$4,796	\$4,967	\$24,035	\$3,433.62
tot MF				58,056				\$12,632,961	\$8,236,555	\$861,237	\$21,730,753	\$374.31
M10	MM Band 1	1	0	553	\$204.52	\$118.12	\$7.29	\$113,100	\$65,320	\$4,031	\$182,451	\$329.93
30	MM Band 1	3	0	257	\$259.47	\$200.78	\$29.15	\$66,684	\$51,601	\$7,492	\$125,776	\$489.40
31	MM Band 1	3	1	11	\$270.94	\$200.78	\$320.15	\$2,980	\$2,209	\$3,522	\$8,711	\$791.87
S40	MM Band 1	4	0	261	\$154.88	\$644.79	\$262.99	\$40,424	\$168,290	\$68,640	\$277,354	\$1,062.66
41	MM Band 1	4	1	53	\$1,651.88	\$603.42	\$494.47	\$67,550	\$31,981	\$26,207	\$145,738	\$2,749.77
S50	MM Band 1	5	0	56	\$154.88	\$644.79	\$262.99	\$8,673	\$36,108	\$14,727	\$59,509	\$1,062.66
S60	MM Band 1	6	0	121	\$1,461.01	\$566.35	\$262.99	\$176,782	\$68,529	\$31,822	\$277,133	\$2,290.35
61	MM Band 1	6	1	61	\$2,038.84	\$566.35	\$320.15	\$124,369	\$34,547	\$19,529	\$178,446	\$2,925.34
S70	MM Band 1	7	0	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
S80	MM Band 1	8	0	81	\$1,461.01	\$685.14	\$310.83	\$118,342	\$55,496	\$25,177	\$199,015	\$2,456.98
81	MM Band 1	8	1	142	\$2,038.84	\$685.14	\$709.64	\$289,515	\$97,290	\$100,769	\$487,574	\$3,433.62
S90	MM Band 1	9	0	11	\$1,461.01	\$685.14	\$310.83	\$16,071	\$7,537	\$3,419	\$27,027	\$2,456.98
91	MM Band 1	9	1	83	\$2,038.84	\$685.14	\$709.64	\$169,224	\$56,867	\$58,900	\$284,991	\$3,433.62
100	MM Band 1	10	1	45	\$5,451.00	\$4,433.19	\$3,300.00	\$245,295	\$199,494	\$148,500	\$593,289	\$13,184.19
tot MM 1				1,736				\$1,460,470	\$875,835	\$512,999	\$2,849,303	\$1,641.30
61	MM Band 2	6	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
71	MM Band 2	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
81	MM Band 2	8	1	6	\$2,038.84	\$685.14	\$709.64	\$12,233	\$4,111	\$4,258	\$20,602	\$3,433.62
91	MM Band 2	9	1	18	\$2,038.84	\$685.14	\$709.64	\$36,699	\$12,333	\$12,774	\$61,805	\$3,433.62
99	MM Band 2	10	1	1	\$739,804.00	\$20,289.00	\$3,986.00	\$739,804	\$20,289	\$3,986	\$764,079	\$764,079.00
100	MM Band 2	10	1	22	\$5,451.00	\$4,433.19	\$3,300.00	\$119,922	\$97,530	\$72,600	\$290,052	\$13,184.19
tot MM 2				51				\$916,814	\$136,528	\$94,898	\$1,148,240	\$22,514.50

Code	Rate	Meter Size (1)	Above Std (2)	Number of customers (3)	avg labor \$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Average Meter & Regulator CAPEX/
												Customer
S10	G10 Band 1	1	0	1,355	\$246.69	\$118.12	\$29.15	\$334,265	\$160,052	\$39,498	\$533,815	\$393.96
30	G10 Band 1	3	0	456	\$259.47	\$200.78	\$29.15	\$118,318	\$91,557	\$13,292	\$223,167	\$489.40
31	G10 Band 1	3	1	17	\$270.94	\$200.78	\$320.15	\$4,606	\$3,413	\$5,443	\$13,462	\$791.87
S40	G10 Band 1	4	0	285	\$154.88	\$644.79	\$262.99	\$44,141	\$183,765	\$74,952	\$302,858	\$1,062.66
41	G10 Band 1	4	1	31	\$1,651.88	\$603.42	\$494.47	\$51,208	\$18,706	\$15,329	\$85,243	\$2,749.77
S50	G10 Band 1	5	0	93	\$154.88	\$644.79	\$262.99	\$14,404	\$59,965	\$24,458	\$98,827	\$1,062.66
51	G10 Band 1	5	1	9	\$1,651.88	\$603.42	\$494.47	\$14,867	\$5,431	\$4,450	\$24,748	\$2,749.77
S60	G10 Band 1	6	0	47	\$1,461.01	\$566.35	\$262.99	\$68,667	\$26,619	\$12,361	\$107,647	\$2,290.35
S70	G10 Band 1	7	0	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
S80	G10 Band 1	8	0	25	\$1,461.01	\$685.14	\$310.83	\$36,525	\$17,129	\$7,771	\$61,425	\$2,456.98
81	G10 Band 1	8	1	31	\$2,038.84	\$685.14	\$709.64	\$63,204	\$21,239	\$21,989	\$106,442	\$3,433.62
S90	G10 Band 1	9	0	3	\$1,461.01	\$685.14	\$310.83	\$4,383	\$2,055	\$932	\$7,371	\$2,456.98
91	G10 Band 1	9	1	8	\$2,038.84	\$685.14	\$709.64	\$16,311	\$5,481	\$5,677	\$27,469	\$3,433.62
100	G10 Band 1	10	1	6	\$5,451.00	\$4,433.19	\$3,300.00	\$32,706	\$26,599	\$19,800	\$79,105	\$13,184.19
tot Band 1				2,367				\$805,067	\$622,578	\$246,225	\$1,673,869	\$707.17
S10	G10 Band 2	1	0	420	\$246.69	\$118.12	\$29.15	\$103,610	\$49,610	\$12,243	\$165,463	\$393.96
30	G10 Band 2	3	0	428	\$259.47	\$200.78	\$29.15	\$111,053	\$85,935	\$12,476	\$209,464	\$489.40
31	G10 Band 2	3	1	29	\$270.94	\$200.78	\$320.15	\$7,857	\$5,823	\$9,284	\$22,964	\$791.87
S40	G10 Band 2	4	0	589	\$154.88	\$644.79	\$262.99	\$91,224	\$379,781	\$154,901	\$625,906	\$1,062.66
41	G10 Band 2	4	1	56	\$1,651.88	\$603.42	\$494.47	\$92,505	\$33,791	\$27,690	\$153,987	\$2,749.77
S50	G10 Band 2	5	0	215	\$154.88	\$644.79	\$262.99	\$33,299	\$138,630	\$56,543	\$228,472	\$1,062.66
51	G10 Band 2	5	1	3	\$1,651.88	\$603.42	\$494.47	\$4,956	\$1,810	\$1,483	\$8,249	\$2,749.77
S60	G10 Band 2	6	0	157	\$1,461.01	\$566.35	\$262.99	\$229,379	\$88,917	\$41,289	\$359,585	\$2,290.35
61	G10 Band 2	6	1	43	\$2,038.84	\$566.35	\$320.15	\$87,670	\$24,353	\$13,766	\$125,790	\$2,925.34
S70	G10 Band 2	7	0	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
71	G10 Band 2	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
S80	G10 Band 2	8	0	65	\$1,461.01	\$685.14	\$310.83	\$94,966	\$44,534	\$20,204	\$159,704	\$2,456.98
81	G10 Band 2	8	1	55	\$2,038.84	\$685.14	\$709.64	\$112,136	\$37,683	\$39,030	\$188,849	\$3,433.62
S90	G10 Band 2	9	0	7	\$1,461.01	\$685.14	\$310.83	\$10,227	\$4,796	\$2,176	\$17,199	\$2,456.98
91	G10 Band 2	9	1	20	\$2,038.84	\$685.14	\$709.64	\$40,777	\$13,703	\$14,193	\$68,672	\$3,433.62
100	G10 Band 2	10	1	8	\$5,451.00	\$4,433.19	\$3,300.00	\$43,608	\$35,466	\$26,400	\$105,474	\$13,184.19
tot Band 2				2,097				\$1,066,767	\$945,964	\$432,263	\$2,444,994	\$1,165.95
S10	G10 Band 3	1	0	12	\$246.69	\$118.12	\$29.15	\$2,960	\$1,417	\$350	\$4,728	\$393.96
30	G10 Band 3	3	0	103	\$259.47	\$200.78	\$29.15	\$26,725	\$20,681	\$3,002	\$50,408	\$489.40
31	G10 Band 3	3	1	18	\$270.94	\$200.78	\$320.15	\$4,877	\$3,614	\$5,763	\$14,254	\$791.87
S40	G10 Band 3	4	0	472	\$154.88	\$644.79	\$262.99	\$73,103	\$304,340	\$124,131	\$501,575	\$1,062.66
41	G10 Band 3	4	1	78	\$1,651.88	\$603.42	\$494.47	\$128,847	\$47,067	\$38,569	\$214,482	\$2,749.77
S50	G10 Band 3	5	0	295	\$154.88	\$644.79	\$262.99	\$45,690	\$190,213	\$77,582	\$313,484	\$1,062.66
51	G10 Band 3	5	1	4	\$1,651.88	\$603.42	\$494.47	\$6,608	\$2,414	\$1,978	\$10,999	\$2,749.77
S60	G10 Band 3	6	0	419	\$1,461.01	\$566.35	\$262.99	\$612,163	\$237,302	\$110,193	\$959,658	\$2,290.35
61	G10 Band 3	6	1	83	\$2,038.84	\$566.35	\$320.15	\$169,224	\$47,007	\$26,572	\$242,803	\$2,925.34
71	G10 Band 3	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
S80	G10 Band 3	8	0	200	\$1,461.01	\$685.14	\$310.83	\$292,202	\$137,028	\$62,166	\$491,396	\$2,456.98
81	G10 Band 3	8	1	215	\$2,038.84	\$685.14	\$709.64	\$438,351	\$147,305	\$152,573	\$738,229	\$3,433.62
S90	G10 Band 3	9	0	34	\$1,461.01	\$685.14	\$310.83	\$49,674	\$23,295	\$10,568	\$83,537	\$2,456.98
91	G10 Band 3	9	1	112	\$2,038.84	\$685.14	\$709.64	\$228,350	\$76,736	\$79,480	\$384,566	\$3,433.62
100	G10 Band 3	10	1	68	\$5,451.00	\$4,433.19	\$3,300.00	\$370,668	\$301,457	\$224,400	\$996,525	\$13,184.19
tot Band 3				2,114				\$2,451,481	\$1,540,442	\$917,647	\$4,909,569	\$2,322.41
31	G10 Band 4	3	1	1	\$270.94	\$200.78	\$320.15	\$271	\$201	\$320	\$792	\$791.87
61	G10 Band 4	6	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
S80	G10 Band 4	8	0	1	\$1,461.01	\$685.14	\$310.83	\$1,461	\$685	\$311	\$2,457	\$2,456.98
81	G10 Band 4	8	1	23	\$2,038.84	\$685.14	\$709.64	\$46,893	\$15,758	\$16,322	\$78,973	\$3,433.62
S90	G10 Band 4	9	0	1	\$1,461.01	\$685.14	\$310.83	\$1,461	\$685	\$311	\$2,457	\$2,456.98
91	G10 Band 4	9	1	27	\$2,038.84	\$685.14	\$709.64	\$55,049	\$18,499	\$19,160	\$92,708	\$3,433.62
100	G10 Band 4	10	0	3	\$5,451.00	\$4,433.19	\$3,300.00	\$16,353	\$13,300	\$9,900	\$39,553	\$13,184.19
100	G10 Band 4	10	1	47	\$5,451.00	\$4,433.19	\$3,300.00	\$256,197	\$208,360	\$155,100	\$619,657	\$13,184.19
tot Band 4				106				\$383,801	\$259,187	\$202,384	\$845,373	\$7,975.21
81	G10 Band 5	8	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62

Code	Rate	Meter Size (1)	Above Std (2)	Number of customers (3)	avg labor			Average Meter & Regulator CAPEX/				
					\$/meter	\$/regulator	\$/meter	tot lab	tot met	tot reg	tot cost	Customer
91	G10 Band 5	9	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62
100	G10 Band 5	10	1	14	\$5,451.00	\$4,433.19	\$3,300.00	\$76,314	\$62,065	\$46,200	\$184,579	\$13,184.19
	tot Band 5			16				\$78,353	\$62,750	\$46,910	\$188,012	\$11,750.77
61	GAC	6	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
S80	GAC	8	0	1	\$1,461.01	\$685.14	\$310.83	\$1,461	\$685	\$311	\$2,457	\$2,456.98
81	GAC	8	1	2	\$2,038.84	\$685.14	\$709.64	\$4,078	\$1,370	\$1,419	\$6,867	\$3,433.62
100	GAC	10	1	1	\$5,451.00	\$4,433.19	\$3,300.00	\$5,451	\$4,433	\$3,300	\$13,184	\$13,184.19
	tot GAC			5				\$13,029	\$7,055	\$5,350	\$25,434	\$5,086.75
S10	NGV	1	0	11	\$246.69	\$118.12	\$29.15	\$2,714	\$1,299	\$321	\$4,334	\$393.96
30	NGV	3	0	2	\$259.47	\$200.78	\$29.15	\$519	\$402	\$58	\$979	\$489.40
31	NGV	3	1	8	\$270.94	\$200.78	\$320.15	\$2,168	\$1,606	\$2,561	\$6,335	\$791.87
41	NGV	4	1	7	\$1,651.88	\$603.42	\$484.47	\$4,224	\$3,461	\$3,461	\$19,248	\$2,749.77
51	NGV	5	1	6	\$1,651.88	\$603.42	\$494.47	\$9,911	\$3,621	\$2,967	\$16,499	\$2,749.77
61	NGV	6	1	20	\$2,038.84	\$566.35	\$320.15	\$40,777	\$11,327	\$6,403	\$58,507	\$2,925.34
71	NGV	7	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
81	NGV	8	1	43	\$2,038.84	\$685.14	\$709.64	\$87,670	\$29,461	\$30,515	\$147,646	\$3,433.62
91	NGV	9	1	35	\$2,038.84	\$685.14	\$709.64	\$71,359	\$23,980	\$24,837	\$120,177	\$3,433.62
99	NGV	10	1	30	\$739,804.00	\$20,289.00	\$3,986.00	\$22,194,120	\$608,670	\$119,580	\$22,922,370	\$764,079.00
100	NGV	10	1	124	\$5,451.00	\$4,433.19	\$3,300.00	\$675,924	\$549,716	\$409,200	\$1,634,840	\$13,184.19
	tot NGV			289				\$23,102,841	\$1,236,005	\$600,864	\$24,939,710	\$86,296.57
S10	GEN	1	0	1	\$246.69	\$118.12	\$29.15	\$247	\$118	\$29	\$394	\$393.96
30	GEN	3	0	7	\$259.47	\$200.78	\$29.15	\$1,816	\$1,405	\$204	\$3,426	\$489.40
31	GEN	3	1	6	\$270.94	\$200.78	\$320.15	\$1,626	\$1,205	\$1,921	\$4,751	\$791.87
S40	GEN	4	0	27	\$154.88	\$644.79	\$262.99	\$4,182	\$17,409	\$7,101	\$28,692	\$1,062.66
41	GEN	4	1	24	\$1,651.88	\$603.42	\$494.47	\$39,645	\$14,482	\$11,867	\$65,994	\$2,749.77
S50	GEN	5	0	15	\$154.88	\$644.79	\$262.99	\$2,323	\$9,672	\$3,945	\$15,940	\$1,062.66
51	GEN	5	1	9	\$1,651.88	\$603.42	\$494.47	\$14,867	\$5,431	\$4,450	\$24,748	\$2,749.77
S60	GEN	6	0	86	\$1,461.01	\$566.35	\$262.99	\$125,647	\$48,706	\$22,617	\$196,970	\$2,290.35
61	GEN	6	1	107	\$2,038.84	\$566.35	\$320.15	\$218,156	\$60,600	\$34,256	\$313,012	\$2,925.34
S70	GEN	7	0	3	\$1,461.01	\$566.35	\$262.99	\$4,383	\$1,699	\$789	\$6,871	\$2,290.35
71	GEN	7	1	3	\$2,038.84	\$566.35	\$320.15	\$6,117	\$1,699	\$960	\$8,776	\$2,925.34
S80	GEN	8	0	87	\$1,461.01	\$685.14	\$310.83	\$127,108	\$59,607	\$27,042	\$213,757	\$2,456.98
81	GEN	8	1	163	\$2,038.84	\$685.14	\$709.64	\$332,331	\$111,678	\$115,671	\$559,680	\$3,433.62
S90	GEN	9	0	8	\$1,461.01	\$685.14	\$310.83	\$11,688	\$5,481	\$2,487	\$19,656	\$2,456.98
91	GEN	9	1	63	\$2,038.84	\$685.14	\$709.64	\$128,447	\$43,164	\$44,707	\$216,318	\$3,433.62
100	GEN	10	0	1	\$5,451.00	\$4,433.19	\$3,300.00	\$5,451	\$4,433	\$3,300	\$13,184	\$13,184.19
100	GEN	10	1	28	\$5,451.00	\$4,433.19	\$3,300.00	\$152,628	\$124,129	\$92,400	\$369,157	\$13,184.19
	tot GEN			638				\$1,176,661	\$510,919	\$373,747	\$2,061,327	\$3,230.92
71	G30 Tran	7	1	1	\$2,038.84	\$566.35	\$320.15	\$2,039	\$566	\$320	\$2,925	\$2,925.34
81	G30 Tran	8	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62
91	G30 Tran	9	1	3	\$2,038.84	\$685.14	\$709.64	\$6,117	\$2,055	\$2,129	\$10,301	\$3,433.62
99	G30 Tran	10	1	7	\$739,804.00	\$20,289.00	\$3,986.00	\$5,178,628	\$142,023	\$27,902	\$5,348,553	\$764,079.00
100	G30 Tran	10	1	7	\$5,451.00	\$4,433.19	\$3,300.00	\$38,157	\$31,032	\$23,100	\$92,289	\$13,184.19
	tot G30 Tran			19				\$5,226,979	\$176,362	\$54,161	\$5,457,502	\$287,236.96
51	G30 Dist	5	1	4	\$1,651.88	\$603.42	\$494.47	\$6,608	\$2,414	\$1,978	\$10,999	\$2,749.77
S60	G30 Dist	6	0	2	\$1,461.01	\$566.35	\$262.99	\$2,922	\$1,133	\$526	\$4,581	\$2,290.35
61	G30 Dist	6	1	7	\$2,038.84	\$566.35	\$320.15	\$14,272	\$3,964	\$2,241	\$20,477	\$2,925.34
81	G30 Dist	8	1	37	\$2,038.84	\$685.14	\$709.64	\$75,437	\$25,350	\$26,257	\$127,044	\$3,433.62
S90	G30 Dist	9	0	2	\$1,461.01	\$685.14	\$310.83	\$2,922	\$1,370	\$622	\$4,914	\$2,456.98
91	G30 Dist	9	1	69	\$2,038.84	\$685.14	\$709.64	\$140,560	\$47,275	\$48,965	\$236,920	\$3,433.62
99	G30 Dist	10	1	85	\$739,804.00	\$20,289.00	\$3,986.00	\$62,863,340	\$1,724,565	\$338,810	\$64,946,715	\$764,079.00
100	G30 Dist	10	1	314	\$5,451.00	\$4,433.19	\$3,300.00	\$1,711,614	\$1,392,023	\$1,036,200	\$4,139,837	\$13,184.19
	tot G30 Dist			520				\$64,837,794	\$3,198,094	\$1,455,598	\$69,491,487	\$133,637.47

Code	Rate	Meter Size (1)	Above Std (2)	Number of customers (3)	avg labor \$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Average Meter & Regulator CAPEX/
												Customer
41	Sml G50	4	1	1	\$1,651.88	\$603.42	\$494.47	\$1,652	\$603	\$494	\$2,750	\$2,749.77
51	Sml G50	5	1	2	\$1,651.88	\$603.42	\$494.47	\$3,304	\$1,207	\$989	\$5,500	\$2,749.77
61	Sml G50	6	1	146	\$2,038.84	\$566.35	\$320.15	\$297,671	\$82,687	\$46,742	\$427,100	\$2,925.34
81	Sml G50	8	1	58	\$2,038.84	\$685.14	\$709.64	\$118,253	\$39,738	\$41,159	\$199,150	\$3,433.62
91	Sml G50	9	1	43	\$2,038.84	\$685.14	\$709.64	\$87,670	\$29,461	\$30,515	\$147,646	\$3,433.62
99	Sml G50	10	1	41	\$739,804.00	\$20,289.00	\$3,986.00	\$30,331,964	\$831,849	\$163,426	\$31,327,239	\$764,079.00
100	Sml G50	10	1	37	\$5,451.00	\$4,433.19	\$3,300.00	\$201,687	\$164,028	\$122,100	\$487,815	\$13,184.19
<b>tot G50</b>				<b>328</b>				<b>\$31,042,200</b>	<b>\$1,149,574</b>	<b>\$405,425</b>	<b>\$32,597,199</b>	<b>\$99,381.70</b>
81	G50 EG	8	1	3	\$2,038.84	\$685.14	\$709.64	\$6,117	\$2,055	\$2,129	\$10,301	\$3,433.62
99	G50 EG	10	1	30	\$739,804.00	\$20,289.00	\$3,986.00	\$22,194,120	\$608,670	\$119,580	\$22,922,370	\$764,079.00
100	G50 EG	10	1	5	\$5,451.00	\$4,433.19	\$3,300.00	\$27,255	\$22,166	\$16,500	\$65,921	\$13,184.19
110	G50 EG	12	1	6	\$2,506,778.00	\$88,986.00	\$0.00	\$15,040,668	\$533,916	\$0	\$15,574,584	\$2,595,764.00
<b>tot G50 EG</b>				<b>44</b>				<b>\$37,268,160</b>	<b>\$1,166,807</b>	<b>\$138,209</b>	<b>\$38,573,176</b>	<b>\$876,663.09</b>
51	G40	5	1	1	\$1,651.88	\$603.42	\$494.47	\$1,652	\$603	\$494	\$2,750	\$2,749.77
81	G40	8	1	4	\$2,038.84	\$685.14	\$709.64	\$8,155	\$2,741	\$2,839	\$13,734	\$3,433.62
91	G40	9	1	3	\$2,038.84	\$685.14	\$709.64	\$6,117	\$2,055	\$2,129	\$10,301	\$3,433.62
99	G40	10	1	15	\$739,804.00	\$20,289.00	\$3,986.00	\$11,097,060	\$304,335	\$59,790	\$11,461,185	\$764,079.00
100	G40	10	1	7	\$5,451.00	\$4,433.19	\$3,300.00	\$38,157	\$31,032	\$23,100	\$92,289	\$13,184.19
<b>tot G40</b>				<b>30</b>				<b>\$11,151,141</b>	<b>\$340,767</b>	<b>\$88,352</b>	<b>\$11,580,259</b>	<b>\$386,008.65</b>

Code	Pipe Diameter Inches	Pipe Type	New Business \$/ft	Replacement \$/ft
0.5P	0.5	P	\$146.46	\$176.54
1P	1	P	\$235.19	\$220.66
2P	2	P	\$230.98	\$196.21
3P	3	P	\$218.87	\$351.91
4P	4	P	\$537.03	\$821.46
6P	6	P	\$1,507.03	\$1,040.13
8P	8	P	\$2,177.99	\$1,602.57
0.5	0.5	S	\$445.65	\$251.60
0.75	0.75	S	\$445.65	\$251.60
1S	1	S	\$673.27	\$410.04
1.25	1.25	S	\$481.15	\$631.07
2S	2	S	\$887.66	\$688.76
3S	3	S	\$728.43	\$725.33
4S	4	S	\$903.83	\$740.56
6S	6	S	\$1,808.75	\$1,318.32
8S	8	S	\$2,645.28	\$1,812.13
10S	10	S	\$3,435.87	\$2,664.50
12S	12	S	\$4,390.84	\$3,004.50
16S	16	S	\$11,096.37	\$7,618.61
20S	20	S	\$11,096.37	\$7,618.61

Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer

Code (1)	Rate	Pipe			# New Customers		New		Service Line	replacement Service Line		Replacement
		Diameter Inches	Pipe frac (2)	Pipe Type (3)	last 5 years (4)	Avg Length feet (5)	Business \$/ft (6)	Replacement \$/ft (6)	CAPEX \$/customer	CAPEX \$/customer	Service Line CAPEX \$'s	Service Line CAPEX \$'s
0.5P	SF	0	12	P	109,698	25.2	\$146.46	\$176.54	\$3,692	\$4,450	\$405,031,743	\$488,208,757
0.75	SF	0	34	S	186	9.3	\$445.65	\$251.60	\$4,122	\$2,327	\$766,742	\$432,880
1P	SF	1	0	P	43,508	32.4	\$235.19	\$220.66	\$7,620	\$7,149	\$331,542,120	\$311,049,555
1S	SF	1	0	S	261	2.5	\$673.27	\$410.04	\$1,676	\$1,021	\$437,552	\$266,482
2P	SF	2	0	P	117	97.7	\$230.98	\$196.21	\$22,576	\$19,178	\$2,641,347	\$2,243,809
	Tot SF				153,770				\$4,815	\$5,217	\$740,419,504	\$802,201,484
0.5P	MF	0	12	P	2,206	19.9	\$146.46	\$176.54	\$2,912	\$3,510	\$6,423,022	\$7,742,049
0.75	MF	0	34	S	80	1.0	\$445.65	\$251.60	\$423	\$239	\$33,869	\$19,122
1P	MF	1	0	P	8,736	24.2	\$235.19	\$220.66	\$5,701	\$5,349	\$49,804,642	\$46,726,225
1S	MF	1	0	S	402	8.3	\$673.27	\$410.04	\$5,608	\$3,416	\$2,254,557	\$1,373,092
1.25	MF	1	25	S	26	10.6	\$481.15	\$631.07	\$5,110	\$6,702	\$132,855	\$174,250
2P	MF	2	0	P	920	39.9	\$230.98	\$196.21	\$9,209	\$7,823	\$8,472,301	\$7,197,169
2S	MF	2	0	S	1,005	1.9	\$887.66	\$688.76	\$1,669	\$1,295	\$1,677,142	\$1,301,336
3P	MF	3	0	P	6	108.2	\$218.87	\$351.91	\$23,675	\$38,067	\$142,050	\$228,399
3S	MF	3	0	S	21	86.0	\$728.43	\$725.33	\$62,645	\$62,378	\$1,315,539	\$1,309,942
	Tot MF				13,402				\$5,242	\$4,929.98	\$70,255,977	\$66,071,584
0.5P	MM Band 1	0	12	P	250	40.7	\$146.46	\$176.54	\$5,961	\$7,185	\$1,490,225	\$1,796,257
0.75	MM Band 1	0	34	S	48	1.1	\$445.65	\$251.60	\$490	\$277	\$23,530	\$13,285
1P	MM Band 1	1	0	P	659	47.6	\$235.19	\$220.66	\$11,200	\$10,508	\$7,380,731	\$6,924,529
1S	MM Band 1	1	0	S	158	2.7	\$673.27	\$410.04	\$1,804	\$1,099	\$285,090	\$173,628
1.25	MM Band 1	1	25	S	6	2.2	\$481.15	\$631.07	\$1,044	\$1,369	\$6,265	\$8,216
2P	MM Band 1	2	0	P	308	76.4	\$230.98	\$196.21	\$17,640	\$14,985	\$5,433,014	\$4,615,313
2S	MM Band 1	2	0	S	150	20.9	\$887.66	\$688.76	\$18,543	\$14,388	\$2,781,478	\$2,158,217
3P	MM Band 1	3	0	P	23	91.3	\$218.87	\$351.91	\$19,983	\$32,130	\$459,602	\$738,984
3S	MM Band 1	3	0	S	15	25.9	\$728.43	\$725.33	\$18,844	\$18,764	\$282,666	\$281,464
	Tot MM 1				1,617				\$11,220	\$10,334	\$18,142,602	\$16,709,893
0.5P	MM Band 2	0	12	P	8	27.8	\$146.46	\$176.54	\$4,064	\$4,899	\$32,514	\$39,191
1S	MM Band 2	1	0	S	2	99.0	\$673.27	\$410.04	\$66,654	\$40,594	\$133,308	\$81,188
1.25	MM Band 2	1	25	S	8	42.5	\$481.15	\$631.07	\$20,449	\$26,820	\$163,591	\$214,562
2P	MM Band 2	2	0	P	4	739.5	\$230.98	\$196.21	\$170,807	\$145,099	\$683,228	\$580,398
2S	MM Band 2	2	0	S	12	93.7	\$887.66	\$688.76	\$83,147	\$64,516	\$997,764	\$774,189
3P	MM Band 2	3	0	P	1	96.0	\$218.87	\$351.91	\$21,011	\$33,784	\$21,011	\$33,784
3S	MM Band 2	3	0	S	11	190.5	\$728.43	\$725.33	\$138,729	\$138,139	\$1,526,018	\$1,519,526
4S	MM Band 2	4	0	S	6	205.3	\$903.83	\$740.56	\$185,583	\$152,059	\$1,113,497	\$912,352
	Tot MM 2				52				\$89,826	\$79,908	\$4,670,931	\$4,155,191
0.5P	G10 Band 1	0	12	P	58	49.0	\$146.46	\$176.54	\$7,177	\$8,650	\$416,238	\$501,716
0.75	G10 Band 1	0	34	S	214	2.3	\$445.65	\$251.60	\$1,038	\$586	\$222,210	\$125,454
1P	G10 Band 1	1	0	P	572	79.3	\$235.19	\$220.66	\$18,644	\$17,491	\$10,664,229	\$10,005,075
1S	G10 Band 1	1	0	S	945	0.8	\$673.27	\$410.04	\$566	\$344	\$534,443	\$325,492
1.25	G10 Band 1	1	25	S	34	0.9	\$481.15	\$631.07	\$452	\$593	\$15,378	\$20,169
2P	G10 Band 1	2	0	P	121	135.3	\$230.98	\$196.21	\$31,240	\$26,538	\$3,779,984	\$3,211,074
2S	G10 Band 1	2	0	S	216	5.5	\$887.66	\$688.76	\$4,900	\$3,802	\$1,058,373	\$821,218
3P	G10 Band 1	3	0	P	3	27.7	\$218.87	\$351.91	\$6,056	\$9,737	\$18,168	\$29,212
4P	G10 Band 1	4	0	P	7	190.3	\$537.03	\$821.46	\$102,191	\$156,316	\$715,337	\$1,094,215
	tot Band 1				2,170				\$8,030	\$7,435	\$17,424,360	\$16,133,624

Code (1)	Rate	Pipe		Pipe Type	# new Customers	Avg Length	New		Replacement		Service Line		Replacement	
		Diameter Inches	Pipe frac (2)				last 5 years	Business \$/ft (6)	\$/ft (6)	\$/customer	\$/customer	Service Line CAPEX \$'s	Service Line CAPEX \$'s	
0.5P	G10 Band 2	0	12	P	31	34.0	\$146.46	\$176.54	\$4,980	\$6,002	\$154,368	\$186,069		
0.75	G10 Band 2	0	34	S	323	3.2	\$445.65	\$251.60	\$1,426	\$805	\$460,624	\$260,055		
1P	G10 Band 2	1	0	P	578	84.3	\$235.19	\$220.66	\$19,822	\$18,597	\$11,457,159	\$10,748,994		
1S	G10 Band 2	1	0	S	961	0.8	\$673.27	\$410.04	\$532	\$324	\$511,141	\$311,300		
1.25	G10 Band 2	1	25	S	21	0.9	\$481.15	\$631.07	\$433	\$568	\$9,094	\$11,927		
2P	G10 Band 2	2	0	P	166	130.2	\$230.98	\$196.21	\$30,068	\$25,543	\$4,991,369	\$4,240,138		
2S	G10 Band 2	2	0	S	150	4.4	\$887.66	\$688.76	\$3,879	\$3,010	\$581,860	\$451,480		
3P	G10 Band 2	3	0	P	8	198.1	\$218.87	\$351.91	\$43,364	\$69,725	\$346,915	\$557,798		
tot Band 2					2,238				\$8,272	\$7,492	\$18,512,531	\$16,767,761		
0.5P	G10 Band 3	0	12	P	19	64.5	\$146.46	\$176.54	\$9,451	\$11,392	\$179,570	\$216,446		
0.75	G10 Band 3	0	34	S	258	3.4	\$445.65	\$251.60	\$1,506	\$850	\$388,625	\$219,407		
1P	G10 Band 3	1	0	P	618	80.3	\$235.19	\$220.66	\$18,881	\$17,714	\$11,668,645	\$10,947,408		
1S	G10 Band 3	1	0	S	1,172	1.4	\$673.27	\$410.04	\$909	\$554	\$1,065,250	\$648,769		
1.25	G10 Band 3	1	25	S	24	1.0	\$481.15	\$631.07	\$462	\$606	\$11,086	\$14,540		
2P	G10 Band 3	2	0	P	451	149.3	\$230.98	\$196.21	\$34,476	\$29,287	\$15,548,457	\$13,208,321		
2S	G10 Band 3	2	0	S	212	3.4	\$887.66	\$688.76	\$2,974	\$2,307	\$630,415	\$489,155		
3P	G10 Band 3	3	0	P	14	139.9	\$218.87	\$351.91	\$30,626	\$49,243	\$428,768	\$689,406		
4P	G10 Band 3	4	0	P	4	188.5	\$537.03	\$821.46	\$101,230	\$154,846	\$404,919	\$619,384		
6P	G10 Band 3	6	0	P	12	201.3	\$1,507.03	\$1,040.13	\$303,409	\$209,409	\$3,640,913	\$2,512,911		
tot Band 3					2,784				\$12,201	\$10,620	\$33,966,647	\$29,565,746		
1P	G10 Band 4	1	0	P	13	70.3	\$235.19	\$220.66	\$16,536	\$15,514	\$214,974	\$201,686		
1S	G10 Band 4	1	0	S	8	35.4	\$673.27	\$410.04	\$23,820	\$14,507	\$190,563	\$116,058		
2P	G10 Band 4	2	0	P	59	166.4	\$230.98	\$196.21	\$38,437	\$32,652	\$2,267,769	\$1,926,456		
2S	G10 Band 4	2	0	S	4	64.0	\$887.66	\$688.76	\$56,810	\$44,080	\$227,241	\$176,322		
3P	G10 Band 4	3	0	P	8	214.0	\$218.87	\$351.91	\$46,838	\$75,310	\$374,703	\$602,477		
3S	G10 Band 4	3	0	S	7	18.6	\$728.43	\$725.33	\$13,527	\$13,469	\$94,688	\$94,285		
4P	G10 Band 4	4	0	P	12	332.3	\$537.03	\$821.46	\$178,471	\$272,997	\$2,141,646	\$3,275,966		
tot Band 4					111				\$49,654	\$57,597	\$5,511,583	\$6,393,250		
2P	G10 Band 5	2	0	P	4	81.0	\$230.98	\$196.21	\$18,709	\$15,893	\$74,836	\$63,573		
4P	G10 Band 5	3	0	P	1	105.0	\$537.03	\$821.46	\$56,388	\$86,254	\$56,388	\$86,254		
4S	G10 Band 5	4	0	S	4	201.3	\$903.83	\$740.56	\$181,895	\$149,037	\$727,581	\$596,149		
6S	G10 Band 5	6	0	S	3	1,203.7	\$1,808.75	\$1,318.32	\$2,177,137	\$1,586,827	\$6,531,412	\$4,760,482		
8S	G10 Band 5	8	0	S	4	326.0	\$2,645.28	\$1,812.13	\$862,360	\$590,754	\$3,449,441	\$2,363,016		
tot Band 5					16				\$677,479	\$491,842	\$10,839,658	\$7,869,474		
1P	GAC	1	0	P	1	10.0	\$235.19	\$220.66	\$2,352	\$2,207	\$2,352	\$2,207		
1S	GAC	1	0	S	1	22.0	\$673.27	\$410.04	\$14,812	\$9,021	\$14,812	\$9,021		
6S	GAC	6	0	S	1	116.0	\$1,808.75	\$1,318.32	\$209,815	\$152,926	\$209,815	\$152,926		
tot GAC					3				\$75,660	\$54,718	\$226,979	\$164,153		

Code (1)	Rate	Pipe Diameter Inches	Pipe frac (2)	Pipe Type (3)	# new Customers		New Business		Replacement		Replacement	
					last 5 years (4)	Avg Length feet (5)	\$/ft (6)	\$/ft (6)	Service Line CAPEX \$/customer	Service Line CAPEX \$/customer	Service Line CAPEX \$'s	Service Line CAPEX \$'s
0.5P	NGV	0	12	P	3	43.7	\$146.46	\$176.54	\$6,396	\$7,709	\$19,188	\$23,128
0.75	NGV	0	34	S	2	160.5	\$445.65	\$251.60	\$71,527	\$40,382	\$143,054	\$80,764
1P	NGV	1	0	P	5	155.8	\$235.19	\$220.66	\$36,643	\$34,378	\$183,215	\$171,891
1S	NGV	1	0	S	5	123.8	\$673.27	\$410.04	\$83,351	\$50,763	\$416,755	\$253,816
1.25	NGV	1	25	S	1	330.0	\$481.15	\$631.07	\$158,779	\$208,252	\$158,779	\$208,252
2P	NGV	2	0	P	44	141.6	\$230.98	\$196.21	\$32,709	\$27,786	\$1,439,176	\$1,222,571
2S	NGV	2	0	S	9	69.4	\$887.66	\$688.76	\$61,639	\$47,827	\$554,751	\$430,445
3P	NGV	3	0	P	16	181.8	\$218.87	\$351.91	\$39,779	\$63,960	\$636,469	\$1,023,366
3S	NGV	3	0	S	15	167.3	\$728.43	\$725.33	\$121,888	\$121,369	\$1,828,315	\$1,820,537
4P	NGV	4	0	P	16	251.1	\$537.03	\$821.46	\$134,826	\$206,237	\$2,157,220	\$3,299,788
4S	NGV	4	0	S	12	136.8	\$903.83	\$740.56	\$123,598	\$101,271	\$1,483,181	\$1,215,255
6P	NGV	6	0	P	3	50.7	\$1,507.03	\$1,040.13	\$76,361	\$52,703	\$229,083	\$158,110
6S	NGV	6	0	S	6	211.7	\$1,808.75	\$1,318.32	\$382,858	\$279,050	\$2,297,148	\$1,674,298
tot NGV					137				\$84,280	\$84,542	\$11,546,335	\$11,582,222
0.5P	GEN	0	12	P	8	378.5	\$146.46	\$176.54	\$55,435	\$66,819	\$443,479	\$534,552
0.75	GEN	0	34	S	172	183.4	\$445.65	\$251.60	\$81,741	\$46,149	\$14,059,486	\$7,937,585
1P	GEN	1	0	P	182	347.0	\$235.19	\$220.66	\$81,621	\$76,576	\$14,855,097	\$13,936,906
1S	GEN	1	0	S	36	352.7	\$673.27	\$410.04	\$237,456	\$144,618	\$8,548,419	\$5,206,242
1S	GEN	1	25	S	3	2,629.0	\$673.27	\$410.04	\$1,770,030	\$1,078,001	\$5,310,091	\$3,234,004
2P	GEN	2	0	P	207	1,167.1	\$230.98	\$196.21	\$269,568	\$228,996	\$55,800,526	\$47,402,213
2S	GEN	2	0	S	43	224.0	\$887.66	\$688.76	\$198,818	\$154,268	\$8,549,164	\$6,633,506
3P	GEN	3	0	P	32	1,561.8	\$218.87	\$351.91	\$341,831	\$549,623	\$10,938,590	\$17,587,928
4P	GEN	4	0	P	18	1,985.6	\$537.03	\$821.46	\$1,066,301	\$1,631,066	\$19,193,425	\$29,359,189
tot GEN					701				\$196,431	\$188,063	\$137,698,278	\$131,832,126
0.5P	G30 Dist	0	12	P	6	174.5	\$146.46	\$176.54	\$25,557	\$30,805	\$153,343	\$184,833
0.75	G30 Dist	0	34	S	22	80.8	\$445.65	\$251.60	\$36,016	\$20,334	\$792,363	\$447,345
1P	G30 Dist	1	0	P	6	113.8	\$235.19	\$220.66	\$26,773	\$25,118	\$160,636	\$150,707
1S	G30 Dist	1	0	S	13	65.7	\$673.27	\$410.04	\$44,229	\$26,937	\$574,974	\$350,176
1.25	G30 Dist	1	25	S	15	107.1	\$481.15	\$631.07	\$51,515	\$67,566	\$772,725	\$1,013,491
2P	G30 Dist	2	0	P	48	358.6	\$230.98	\$196.21	\$82,829	\$70,363	\$3,975,792	\$3,377,412
2S	G30 Dist	2	0	S	103	273.8	\$887.66	\$688.76	\$243,073	\$188,606	\$25,036,471	\$19,426,413
3P	G30 Dist	3	0	P	46	383.0	\$218.87	\$351.91	\$83,836	\$134,798	\$3,856,466	\$6,200,730
3S	G30 Dist	3	0	S	63	325.5	\$728.43	\$725.33	\$237,132	\$236,123	\$14,939,329	\$14,875,770
4P	G30 Dist	4	0	P	14	481.3	\$537.03	\$821.46	\$258,464	\$395,360	\$3,618,501	\$5,535,034
4S	G30 Dist	4	0	S	72	761.2	\$903.83	\$740.56	\$687,963	\$563,688	\$49,533,343	\$40,585,512
6P	G30 Dist	6	0	P	3	1,282.0	\$1,507.03	\$1,040.13	\$1,932,004	\$1,333,445	\$5,796,013	\$4,000,334
6S	G30 Dist	6	0	S	23	845.1	\$1,808.75	\$1,318.32	\$1,528,631	\$1,114,157	\$35,158,504	\$25,625,611
8S	G30 Dist	8	0	S	5	1,265.8	\$2,645.28	\$1,812.13	\$3,348,390	\$2,293,792	\$16,741,951	\$11,468,961
10S	G30 Dist	10	0	S	1	73.0	\$3,435.87	\$2,664.50	\$250,818	\$194,508	\$250,818	\$194,508
tot G30 Dist					440				\$366,730	\$303,266	\$161,361,230	\$133,436,839
2P	G30 Tran	2	0	P	3	1,363.0	\$230.98	\$196.21	\$314,821	\$267,438	\$944,462	\$802,315
2S	G30 Tran	2	0	S	5	1,484.6	\$887.66	\$688.76	\$1,317,818	\$1,022,527	\$6,589,090	\$5,112,637
4S	G30 Tran	4	0	S	1	53.0	\$903.83	\$740.56	\$47,903	\$39,250	\$47,903	\$39,250
6S	G30 Tran	6	0	S	2	1,593.0	\$1,808.75	\$1,318.32	\$2,881,338	\$2,100,091	\$5,762,676	\$4,200,181
8S	G30 Tran	8	0	S	1	42.0	\$2,645.28	\$1,812.13	\$111,102	\$76,109	\$111,102	\$76,109
16S	G30 Tran	16	0	S	1	95.0	\$11,096.37	\$7,618.61	\$1,054,155	\$723,767	\$1,054,155	\$723,767
tot G30 Tran					13				\$1,116,107	\$842,635	\$14,509,387	\$10,954,259



Code (1)	Rate	Pipe Diameter Inches	Pipe frac (2)	Pipe Type (3)	# new Customers		Avg Length feet (5)	New Business \$/ft (6)	Replacement \$/ft (6)	Service Line		Replacement Service Line	
					last 5 years (4)					\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.75	Sml G50	0	34	S	5	7.4	\$445.65	\$251.60	\$3,298	\$1,862	\$16,489	\$9,309	
1P	Sml G50	1	0	P	21	113.4	\$235.19	\$220.66	\$26,678	\$25,029	\$560,232	\$525,604	
1S	Sml G50	1	0	S	6	19.7	\$673.27	\$410.04	\$13,241	\$8,064	\$79,446	\$48,385	
1.25	Sml G50	1	25	S	3	143.7	\$481.15	\$631.07	\$69,125	\$90,663	\$207,375	\$271,989	
2P	Sml G50	2	0	P	37	103.7	\$230.98	\$196.21	\$23,959	\$20,353	\$886,486	\$753,064	
2S	Sml G50	2	0	S	15	121.8	\$887.66	\$688.76	\$108,117	\$83,890	\$1,621,752	\$1,258,357	
3P	Sml G50	3	0	P	2	159.5	\$218.87	\$351.91	\$34,910	\$56,130	\$69,819	\$112,261	
3S	Sml G50	3	0	S	3	28.0	\$728.43	\$725.33	\$20,396	\$20,309	\$61,188	\$60,928	
4P	Sml G50	4	0	P	3	284.3	\$537.03	\$821.46	\$152,695	\$233,569	\$458,084	\$700,708	
4S	Sml G50	4	0	S	7	679.9	\$903.83	\$740.56	\$614,474	\$503,474	\$4,301,319	\$3,524,318	
6P	Sml G50	6	0	P	2	131.5	\$1,507.03	\$1,040.13	\$198,174	\$136,777	\$396,348	\$273,554	
6S	Sml G50	6	0	S	7	788.7	\$1,808.75	\$1,318.32	\$1,426,585	\$1,039,780	\$9,986,098	\$7,278,463	
8S	Sml G50	8	0	S	4	82.0	\$2,645.28	\$1,812.13	\$216,913	\$148,595	\$867,651	\$594,378	
10S	Sml G50	10	0	S	1	467.0	\$3,435.87	\$2,664.50	\$1,604,550	\$1,244,319	\$1,604,550	\$1,244,319	
tot Sml G50					116				\$182,042	\$143,583	\$21,116,838	\$16,655,639	
1.25	G50 EG	1	25	S	1	163.0	\$481.15	\$631.07	\$78,427	\$102,864	\$78,427	\$102,864	
2S	G50 EG	2	0	S	2	27.0	\$887.66	\$688.76	\$23,967	\$18,596	\$47,934	\$37,193	
3S	G50 EG	3	0	S	1	520.0	\$728.43	\$725.33	\$378,782	\$377,171	\$378,782	\$377,171	
4S	G50 EG	4	0	S	2	22.5	\$903.83	\$740.56	\$20,336	\$16,663	\$40,672	\$33,325	
6S	G50 EG	6	0	S	3	232.0	\$1,808.75	\$1,318.32	\$419,630	\$305,851	\$1,258,890	\$917,554	
8S	G50 EG	8	0	S	2	586.0	\$2,645.28	\$1,812.13	\$1,550,133	\$1,061,909	\$3,100,267	\$2,123,817	
tot G50 EG					11				\$445,907	\$326,538	\$4,904,972	\$3,591,923	
2S	G40	2	0	S	6	86.0	\$887.66	\$688.76	\$76,339	\$59,233	\$458,032	\$355,398	
3S	G40	3	0	S	4	129.3	\$728.43	\$725.33	\$94,149	\$93,749	\$376,597	\$374,995	
4P	G40	4	0	P	2	1,477.5	\$537.03	\$821.46	\$793,459	\$1,213,713	\$1,586,918	\$2,427,426	
4S	G40	4	0	S	7	437.3	\$903.83	\$740.56	\$395,231	\$323,835	\$2,766,616	\$2,266,847	
6S	G40	6	0	S	3	5.7	\$1,808.75	\$1,318.32	\$10,250	\$7,471	\$30,749	\$22,412	
8S	G40	8	0	S	2	26.5	\$2,645.28	\$1,812.13	\$70,100	\$48,021	\$140,200	\$96,043	
16S	G40	16	0	S	1	108.0	\$11,096.37	\$7,618.61	\$1,198,408	\$822,809	\$1,198,408	\$822,809	
tot G40					25				\$262,301	\$254,637	\$6,557,518	\$6,365,930	

Notes::

- (1) "code" shows Pipe type and pipe diameter size
- (2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively
- (3) "Pipe type": P means plastic and S means steel.
- (4) "# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.
- (5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis
- (6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.
- (7) Line Extension Credit, per SoCalGas' Rule 20, effective 04/2017

WATER HEATING .....	\$ 643
SPACE HEATING .....	\$ 698
COOKTOP & OVEN .....	\$ 114
DRYER STUB .....	\$ 160
Total	\$ 1,615

Code	Pipe Diameter Inches	Pipe Type	new Business \$/ft	Replacement \$/ft	avg labor and nonlabor \$/meter	avg \$/meter	avg \$/regulator	Total
0.5PS10	0.5	P	\$146.46	\$176.54	\$247	\$119	\$29	\$395
0.5P30	0.5	P	\$146.46	\$176.54	\$259	\$202	\$29	\$491
0.5PS40	0.5	P	\$146.46	\$176.54	\$155	\$615	\$263	\$1,032
1PS10	1	P	\$235.19	\$220.66	\$247	\$119	\$29	\$395
1P30	1	P	\$235.19	\$220.66	\$259	\$202	\$29	\$491
1P31	1	P	\$235.19	\$220.66	\$271	\$203	\$320	\$794
1PS40	1	P	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS41	1	P	\$235.19	\$220.66	\$1,652	\$573	\$494	\$2,720
1PS50	1	P	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS60	1	P	\$235.19	\$220.66	\$1,461	\$536	\$263	\$2,260
1PS80	1	P	\$235.19	\$220.66	\$1,461	\$655	\$311	\$2,427
2P30	2	P	\$230.98	\$196.21	\$259	\$202	\$29	\$491
0.75S10	0.75	S	\$445.65	\$251.60	\$247	\$119	\$29	\$395
0.7530	0.75	S	\$445.65	\$251.60	\$259	\$202	\$29	\$491
0.75S40	0.75	S	\$445.65	\$251.60	\$155	\$615	\$263	\$1,032
1S30	1	S	\$673.27	\$410.04	\$259	\$202	\$29	\$491
1SS40	1	S	\$673.27	\$410.04	\$155	\$615	\$263	\$1,032

**Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer**

Code (1)	Rate	Pipe Diameter Inches	Pipe frac (2)	Pipe Type (3)	# New Customers		Avg Length feet (5)	New Business \$/ft (6)	Replacement \$/ft (6)	Meter and Service Line	Replacement Service Line	Service Line	Replacement Service Line	Average Meter & Regulator
					last 5 years (4)					CAPEX \$/customer	CAPEX \$/customer	CAPEX \$'s	CAPEX \$'s	CAPEX/ Customer
0.5PS10	SF	0	12	P	23,872	25.2	\$146.46	\$176.54	\$176.54	<b>\$1,615</b>	<b>\$4,450</b>	\$38,553,280	\$106,241,859	\$395.24
0.5P30	SF	0	34	P	45,742	25.2	\$146.46	\$176.54	\$176.54	<b>\$1,615</b>	<b>\$4,450</b>	\$73,873,330	\$203,573,857	\$490.68
0.5PS40	SF	1	0	P	2,106	25.2	\$146.46	\$176.54	\$176.54	<b>\$1,615</b>	<b>\$4,450</b>	\$3,401,190	\$9,372,711	\$1,032.45
1PS10	SF	1	0	P	6,956	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$11,233,940	\$49,730,181	\$395.24
1P30	SF	1	0	P	15,390	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$24,854,850	\$110,026,953	\$490.68
1P31	SF	1	0	P	29	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$46,835	\$207,328	\$793.71
1PS40	SF	1	0	P	3,905	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$6,306,575	\$27,917,820	\$1,032.45
1PS41	SF	1	0	P	44	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$71,060	\$314,567	\$2,719.56
1PS50	SF	1	0	P	486	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$784,890	\$3,474,535	\$1,032.45
1PS60	SF	1	0	P	454	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$733,210	\$3,245,759	\$2,260.15
1PS80	SF	1	0	P	125	32.4	\$235.19	\$220.66	\$220.66	<b>\$1,615</b>	<b>\$7,149</b>	\$201,875	\$893,656	\$2,426.78
2P30	SF	1	0	P	27	97.7	\$230.98	\$196.21	\$196.21	<b>\$1,615</b>	<b>\$19,178</b>	\$43,605	\$517,802	\$490.68
0.75S10	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$251.60	<b>\$1,615</b>	<b>\$2,327</b>	\$83,980	\$121,020	\$395.24
0.7530	SF	0	34	S	54	9.3	\$445.65	\$251.60	\$251.60	<b>\$1,615</b>	<b>\$2,327</b>	\$87,210	\$125,675	\$490.68
0.75S40	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$251.60	<b>\$1,615</b>	<b>\$2,327</b>	\$83,980	\$121,020	\$1,032.45
1S30	SF	1	0	S	60	2.5	\$673.27	\$410.04	\$410.04	<b>\$1,615</b>	<b>\$1,021</b>	\$96,900	\$61,260	\$490.68
1SS40	SF	1	0	S	54	2.5	\$673.27	\$410.04	\$410.04	<b>\$1,615</b>	<b>\$1,021</b>	\$87,210	\$55,134	\$1,032.45
<b>Tot SF</b>					<b>99,408</b>					<b>\$1,615</b>	<b>\$5,191</b>	<b>\$160,543,920</b>	<b>\$516,001,139</b>	<b>\$509</b>
													Service Cost for CAPEX	\$1,106

Notes::

- (1) "code" shows Pipe type and pipe diameter size
  - (2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively
  - (3) "Pipe type": **P** means plastic and **S** means steel.
  - (4) "# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.
  - (5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis
  - (6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.
  - (7) Line Extension Credit, per SoCalGas' Rule 20, effective 01/2020
- |                      |           |              |
|----------------------|-----------|--------------|
| WATER HEATING .....  | \$        | 643          |
| SPACE HEATING .....  | \$        | 698          |
| COOKTOP & OVEN ..... | \$        | 114          |
| DRYER STUB .....     | \$        | 160          |
| <b>Total</b>         | <b>\$</b> | <b>1,615</b> |

Code	Pipe Diameter Inches	Pipe Type	new Business \$/ft	Replacement \$/ft	avg labor and nonlabor \$/meter	avg \$/meter	avg \$/regulator	Total
0.5PM10	0.5	P	\$146.46	\$176.54	\$205	\$118	\$7	\$330
0.5P30	0.5	P	\$146.46	\$176.54	\$259	\$201	\$29	\$489
0.5PS40	0.5	P	\$146.46	\$176.54	\$155	\$645	\$263	\$1,063
1PM10	1	P	\$235.19	\$220.66	\$205	\$118	\$7	\$330
1P30	1	P	\$235.19	\$220.66	\$259	\$201	\$29	\$489
1P31	1	P	\$235.19	\$220.66	\$271	\$201	\$320	\$792
1PS40	1	P	\$235.19	\$220.66	\$155	\$645	\$263	\$1,063
1PS41	1	P	\$235.19	\$220.66	\$1,652	\$603	\$494	\$2,750
2PM10	1	P	\$235.19	\$220.66	\$205	\$118	\$7	\$330
2P30	1	P	\$235.19	\$220.66	\$259	\$201	\$29	\$489
1SM10	1	S	\$673.27	\$410.04	\$1,461.01	\$566.35	\$263	\$2,290
1S30	1	S	\$673.27	\$410.04	\$259	\$201	\$29	\$489
1SS40	1	S	\$673.27	\$410.04	\$155	\$645	\$263	\$1,063
2SM10	2	S	\$887.66	\$688.76	\$205	\$118	\$7	\$330

**Calculation of Weighted Average Service Line and Service Line Replacement Cost \$/customer**

Code (1)	Rate	Pipe Diameter Inches	Pipe frac (2)	Pipe Type (3)	# New Customers		Avg Length feet (5)	New Business \$/ft (6)	Replacement \$/ft (6)	Meter and Service Line	Replacement Service Line	Replacement Service Line	Average Meter & Regulator	
					last 5 years (4)					CAPEX \$/customer	CAPEX \$/customer	Service Line CAPEX \$'s	Service Line CAPEX \$'s	Customer
0.5PM10	MF	0	12	P	670		19.9	\$146.46	\$176.54	<b>\$1,615</b>	<b>\$3,510</b>	\$1,082,050	\$2,351,393	\$329.93
0.5P30	MF	0	12	P	744		19.9	\$146.46	\$176.54	<b>\$1,615</b>	<b>\$3,510</b>	\$1,201,560	\$2,611,099	\$489.40
0.5PS40	MF	1	12	P	46		19.9	\$146.46	\$176.54	<b>\$1,615</b>	<b>\$3,510</b>	\$74,290	\$161,439	\$1,062.66
1PM10	MF	1	0	P	3,330		24.2	\$235.19	\$220.66	<b>\$1,615</b>	<b>\$5,349</b>	\$5,377,950	\$17,811,164	\$329.93
1P30	MF	1	0	P	2,180		24.2	\$235.19	\$220.66	<b>\$1,615</b>	<b>\$5,349</b>	\$3,520,700	\$11,660,161	\$489.40
1PS40	MF	1	0	P	152		24.2	\$235.19	\$220.66	<b>\$1,615</b>	<b>\$5,349</b>	\$245,480	\$813,002	\$1,062.66
2PM10	MF	1	0	P	452		39.9	\$235.19	\$220.66	<b>\$1,615</b>	<b>\$8,798</b>	\$729,980	\$3,976,492	\$329.93
2P30	MF	1	0	P	112		39.9	\$235.19	\$220.66	<b>\$1,615</b>	<b>\$8,798</b>	\$180,880	\$985,325	\$489.40
1SM10	MF	1	0	S	56		8.3	\$673.27	\$410.04	<b>\$1,615</b>	<b>\$3,416</b>	\$90,440	\$191,277	\$2,290.35
1S30	MF	1	0	S	72		8.3	\$673.27	\$410.04	<b>\$1,615</b>	<b>\$3,416</b>	\$116,280	\$245,927	\$489.40
1SS40	MF	1	0	S	26		8.3	\$673.27	\$410.04	<b>\$1,615</b>	<b>\$3,416</b>	\$41,990	\$88,807	\$1,062.66
2SM10	MF	2	0	S	103		1.9	\$887.66	\$688.76	<b>\$1,615</b>	<b>\$1,295</b>	\$166,345	\$133,371	\$329.93
<b>Tot MF</b>					<b>7,943</b>					<b>\$1,615</b>	<b>\$5,165</b>	<b>\$12,827,945</b>	<b>\$41,029,457</b>	<b>\$427</b>
													Service Cost for CAPEX	\$1,188

Notes::

- (1) "code" shows Pipe type and pipe diameter size
  - (2) "Pipe fraction" is a code for the pipe size—the codes 12, 34, and 25 represent .5, .75, and .25 inch diameter pipes, respectively
  - (3) "Pipe type": **P** means plastic and **S** means steel.
  - (4) "# of new customers" represents new customers added to SoCalGas' system in the past 5 years. For residential, core commercial and industrial customers, new customer data were used (premises that initial gas service started between 2012-2016) while all the other rate classes cover the entire population that service line history could be matched by premise as very few large new customers are added to SoCalGas system each year.
  - (5) The average length was computed by dividing the total service line footage by rate class, line diameter, and pipe type by the number of customers used in the analysis
  - (6) New Business is newly installed pipe, and Replacement is when we replace existing pipe. The costs represent the unit cost that is the best representation of the cost per foot, by pipe size and pipe material, to install New Business service pipe and Replacement service pipe on the Gas Distribution system.
  - (7) Line Extension Credit, per SoCalGas' Rule 20, effective 04/2017
- |                      |           |              |
|----------------------|-----------|--------------|
| WATER HEATING .....  | \$        | 643          |
| SPACE HEATING .....  | \$        | 698          |
| COOKTOP & OVEN ..... | \$        | 114          |
| DRYER STUB .....     | \$        | 160          |
| <b>Total</b>         | <b>\$</b> | <b>1,615</b> |

SCG 2024 TCAP  
LRMC Customer Cost  
Big GEMS Investment by Customer Class for Retail Noncore (exclusive use on Cust MC)

	NonCore C&I Distribution G30	NonCore C&I Transmission G30	Total NonCore C&I G30	EG G-50	EOR G-40	LB	SDG&E	SWG	Vernon	Mexicali	Source
<b># of Meters</b>											
ROTARY 11M & LARGER: (*)			0	1	2	1	0	6	0	0	
TURBINE MSA'S (*)			3	29	2	0	1	7	0	1	
ORIFICE METERS (ultra sonic)			5	38	0	4	10	0	2	0	
<b>Total # meters</b>			<b>8</b>	<b>68</b>	<b>4</b>	<b>5</b>	<b>11</b>	<b>13</b>	<b>2</b>	<b>1</b>	

\*\* Number of 2021 GEMS Meters at Wholesalers provided by, Measurement  
Exclusive Use  
Meter Cost  
\$/meter

<b>Investment in Meters:</b>											
ROTARY 11M & LARGER: (*)	\$13,184	\$0	\$0	\$0	\$13,184	\$26,367	\$13,184	\$0	\$79,102	\$0	\$0
TURBINE MSA'S (*)	\$764,079	\$2,009,022	\$283,215	\$2,292,237	\$22,158,291	\$1,528,158	\$0	\$764,079	\$5,348,553	\$0	\$764,079
ORIFICE METERS (ultra sonic)	\$2,595,764	\$11,375,234	\$1,603,586	\$12,978,820	\$98,639,032	\$0	\$10,383,056	\$25,957,640	\$0	\$5,191,528	\$0
Total Investment \$'s	2021 \$s	\$13,384,256	\$1,886,801	\$15,271,057	\$120,810,507	\$1,554,525	\$10,396,240	\$26,721,719	\$5,427,655	\$5,191,528	\$764,079
allocation of Total NonCore C&I to Distribution & Transmission		88%	12%								
<b>Total Investment \$'s</b>	<b>2021 \$s</b>	<b>\$13,215,373</b>	<b>\$1,862,993</b>	<b>\$15,078,366</b>	<b>\$119,286,115</b>	<b>\$1,534,910</b>	<b>\$10,265,059</b>	<b>\$26,384,543</b>	<b>\$5,359,168</b>	<b>\$5,126,021</b>	<b>\$754,438</b>
2016 Number of Customers		519	19	538	372	30	1	1	1	1	1
<b>Exclusive Use Cost Per Customer</b>	2021 \$s	<b>\$25,463.15</b>	<b>\$98,052.27</b>	<b>\$28,026.70</b>	<b>\$320,661.60</b>	<b>\$51,163.67</b>	<b>\$10,265,059.48</b>	<b>\$26,384,543.35</b>	<b>\$5,359,168.35</b>	<b>\$5,126,021.11</b>	<b>\$754,437.82</b>

Tab 'cust 2'

Note : This is part of Exclusive Use Facilities Costs

<b>Exclusive Use Meter Cost \$/meter</b>	2021 \$s	<b>ULTRASONIC</b>		
		<b>TURBINE METERS 4"-12"</b>	<b>ROTARY METERS 4" - 6"</b>	<b>METERS 4" - 16"</b>
Avg. Labor Cost		\$110,525	\$1,144	\$230,483
Avg. Contract Cost		\$431,457	\$0	\$600,495
Avg. Materials Cost		\$222,097	\$12,040	\$1,764,786
<b>TOTAL</b>		<b>\$764,079</b>	<b>\$13,184</b>	<b>\$2,595,764</b>

SCG 2024 TCAP  
LRMC Customer Cost  
Allocation of Customer-Related Distribution O&M

		Residential					Core					Non-Residential				
		Single Family	Multi Family	Master Meter		Residential Total	G-10					Gas Air Conditioning	Natural Gas Vehicle	Gas Engine		
				Small	Large		Very Small	Small	Medium	Large	Very Large				Total	
1	<b>2021 Number of Customers</b>	3,792,575	1,772,390	119,747	51	5,684,763	88,897	64,539	47,008	2,078	313		3	340	639	
<b>Customer Services O&amp;M Costs</b>																
2	Total Cost	2021 M\$\$	\$86,028	\$40,204	\$2,716	\$1	\$128,949	\$4,327	\$4,725	\$11,943	\$855	\$224	\$22,075	\$0	\$83	\$96
3	2021 \$		22.68	22.68	22.68	22.68	48.67	73.21	254.07	411.43	717.11	108.83	57.31	245.49	150.65	
4	Cost Per Customer:	2024 \$	24.52	24.52	24.52	24.52	52.61	79.13	274.62	444.70	775.09	117.63	61.94	265.34	162.83	
<b>Customer Accounts O&amp;M Costs</b>																
5	Total Cost:	2021 M\$\$	\$53,585	\$25,042	\$1,692	\$1	\$80,319	\$1,111	\$687	\$5,977	\$163	\$118	\$8,057	\$4	\$285	\$49
6	2021 \$		14.13	14.13	14.13	14.13	14.13	12.50	10.65	127.16	78.63	375.77	39.72	1,439.04	838.00	75.93
7	Cost Per Customer:	2024 \$	15.27	15.27	15.27	15.27	13.51	11.51	137.44	84.99	406.16	42.93	1,555.39	905.75	82.07	
8	segmentation by number of customers		66.71%	31.18%	2.11%	0.001%										
<b>Meters, Reg &amp; MSAs O&amp;M Costs</b>																
10	Total Cost	2021 M\$\$	\$5,587	\$2,191	\$569	\$3	\$8,351	\$3	\$4	\$5	\$1	\$0	\$13	\$0	\$0	\$0
11	2021 \$		1.47	1.24	4.75	65.21	1.47	0.03	0.06	0.11	0.39	0.57	0.06			
12	Cost Per Customer:	2024 \$	1.59	1.34	5.14	70.49	1.59	0.04	0.06	0.12	0.42	0.62	0.07	0.62	0.62	0.62
<b>Service Lines O&amp;M Costs</b>																
13	Total Costs	2021M \$	\$45,310													
14	2024 \$		\$48,973,451													
15	Total Service Line Footage		231,707,635	58,800,895	11,613,724	14,016	302,136,270	12,721,655	6,951,318	6,611,352	562,372	116,057	26,962,754	250	60,700	625,863
16	Percent of Total Footage		70.22%	17.82%	3.52%	0.00%	91.56%	3.86%	2.11%	2.00%	0.17%	0.04%	8.17%	0.00%	0.02%	0.19%
17	Allocated SL O&M Costs	2024 \$	\$34,388,355	\$8,726,799	\$1,723,624	\$2,080	\$44,840,859	\$1,888,055	\$1,031,664	\$981,209	\$83,463	\$17,224	\$4,001,615	\$37	\$9,009	\$92,886
18	Cost Per Customer	2024 \$	\$9.07	\$4.92	\$14.39	\$40.79	\$7.89	\$21.24	\$15.99	\$20.87	\$40.17	\$55.03	\$19.73	\$12.36	\$26.50	\$145.36
<b>Calculation of Customer Service &amp; Information Cost (CSI) Costs Accounts (FERC Accounts 907 to 910):</b>																
5	Total Cost:	2021 M\$\$	\$13,254	\$6,194	\$418	\$0	\$19,866	\$847.25	\$615.10	\$448.02	\$11,980.78	\$1,804.61	\$15,696	\$0	\$3,053	\$0
3	2021 \$		3.49	3.49	3.49	3.49	3.49	9.53	9.53	9.53	5,765.54	5,765.54	77.38	0.00	8,978.06	0.00
4	Cost Per Customer:	2024 \$	3.78	3.78	3.78	3.78	3.78	10.30	10.30	10.30	6,231.70	6,231.70	83.64	0.00	9,703.96	0.00

**Calculation of Customer Service & Information Cost (CSI) Costs Accounts (FERC Accounts 907 to 910):**

139	Calculation of Customer Service & Information Costs (CSI Costs):	2021 Costs M\$	GRC Exclusion		2021 Costs in Transport		FERC Form 2	Exclusions	2021 \$
			Items	Other Adjustments	Rates				
140	907 Cus Svc-Supervision + Payroll Taxes	\$274	\$0	\$0	\$274			Self Generation (acct 908)	\$10,876,259
141	908 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM & Self-Gen)	\$267,147	(\$228,960)	\$0	\$38,187			Energy Efficiency (acct 908)	\$115,795,522
142	909 Cus Svc-Info & Instruction Exp	\$1,835	\$0	\$0	\$1,835			Low Income Energy Efficiency (acct 908)	\$102,073,863
143	910 Cus Svc-Misc CSI Exp	\$2,436	\$0	\$0	\$2,436			AB802MA (acct 908)	\$213,621
144		\$271,692	(\$228,960)	\$0	\$42,732			MEOMA (acct 908)	\$0
147								WDRMA (acct 908 and 907001)	\$596
148	<b>CS&amp;I O&amp;M, 2021 \$000's</b>				<b>\$42,732</b>				<b>\$228,959,861</b>

		Residential	CCI	G-AC	G-GEN	NGV	Total Core	NCCI	EG Tier 1	EG Tier 2	EOR	Total Retail NonCore	Long Beach
1	<b>Calculation of CSI Cost Allocator:</b>												
2	Energy Markets Costs:												
3	Mgmt estimate - FTE	0.0%	2.8%	0.0%	0.0%	0.0%	2.8%	7.3%	2.4%	3.3%	2.2%	6.4%	0.6%
4	Energy Markets	\$884	\$25	\$0	\$0	\$0	\$25	\$65	\$21	\$319	\$207	\$613	\$57
6	Large C&I:												
7	# Large C&I Customers	0	2,391	0	0	0	2,391	538	0	0	0	538	0
8	% Large C&I only	0.0%	81.6%	0.0%	0.0%	0.0%	81.6%	18.4%	0.0%	0.0%	0.0%	18.4%	0.0%
9	<b>Large C&amp;I</b>	\$5,719	\$4,668	\$0	\$0	\$0	\$4,668	\$1,050	\$0	\$0	\$0	\$1,050	\$0
10	<b>NGV</b>	\$2,553	\$0	\$0	\$0	\$2,553	\$2,553	\$0	\$0	\$0	\$0	\$0	\$0
11	<b>Residential</b>	\$10,728	\$0	\$0	\$0	\$0	\$10,728	\$0	\$0	\$0	\$0	\$0	\$0
12	Small Business												
13	# C10, G-AC, G-GE Customers only	0	202,835	0	0	0	202,835	0	0	0	0	0	0
14	Small Business	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
15	<b>Small Business</b>	\$1,617	\$1,617	\$0	\$0	\$0	\$1,617	\$0	\$0	\$0	\$0	\$0	\$0
16	Econ Development												
17	# Large C&I Customers	0	2,391	0	0	0	2,391	538	0	0	0	538	0
18	% Large C&I only	0.0%	81.6%	0.0%	0.0%	0.0%	81.6%	18.4%	0.0%	0.0%	0.0%	18.4%	0.0%
19	<b>Econ Development</b>	\$8,353	\$6,819	\$0	\$0	\$0	\$6,819	\$1,534	\$0	\$0	\$0	\$1,534	\$0
20	<b>Other Residential</b>	\$5,889	\$0	\$0	\$0	\$0	\$5,889	\$0	\$0	\$0	\$0	\$0	\$0
21	<b>Total</b>	\$35,743	\$18,617	\$13,129	\$0	\$0	\$32,299	\$2,649	\$21	\$319	\$207	\$3,197	\$57
22	<b>Allocator %</b>		<b>46.5%</b>	<b>36.7%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>7.1%</b>	<b>90.4%</b>	<b>7.4%</b>	<b>0.1%</b>	<b>0.9%</b>	<b>0.6%</b>	<b>8.9%</b>



SCG 2024 TCAP  
LRMC Customer Cost  
Allocation of Customer-Related Distribution O&M

		Noncore											Total Over All Customers	
		G-30			Small EG	EG	EOR	Wholesale			Intl			
		Distribution	Transmission	Total	G-50	G-40	LB	SDG&E	SWG	Vernon	ECOGAS			
1 2021 Number of Customers		519	19	538	351	21	30	1	1	1	1	1		
<b>Customer Services O&amp;M Costs</b>														
2	Total Cost	2021 M\$\$			\$290	\$75	\$4	\$2	\$0	\$0	\$0	\$0	\$0	\$151,574
3	Cost Per Customer:	2021 \$\$			538.34	213.35	213.35	50.03	0.00	0.00	0.00	0.00	0.00	
4		2024 \$\$			581.86	230.60	230.60	54.08	0.00	0.00	0.00	0.00	0.00	
					Total EG	\$79								
<b>Customer Accounts O&amp;M Costs</b>														
5	Total Cost:	2021 M\$\$			\$898	\$604	\$36	\$51	\$7	\$5	\$11	\$4	\$3	\$90,332
6	Cost Per Customer:	2021 \$\$			1,668.83	1,720.92	1,720.92	1,696.63	6,530.71	5,087.00	10,861.85	3,643.28	2,921.42	
7		2024 \$\$			1,803.76	1,860.06	1,860.06	1,833.81	7,058.74	5,498.30	11,740.07	3,937.85	3,157.63	
8	segmentation by number of customers													
9						EG O&M cost	\$640							
					94%	6%	note: split EG costs by # of customers							
<b>Meters, Reg &amp; MSAs O&amp;M Costs</b>														
10	Total Cost	2021 M\$\$			\$62	\$513	\$61	\$42	\$8	\$8	\$17	\$1	\$1	\$9,077
11	Cost Per Customer:	2021 \$\$			115.24	1,461.54	2,904.76	1,400.00	8,000.00	8,000.00	17,000.00	1,000.00	1,000.00	
12		2024 \$\$	124.56	124.56	124.56	1,579.71	3,139.62	1,513.19	8,646.82	8,646.82	18,374.50	1,080.85	1,080.85	
<b>Service Lines O&amp;M Costs</b>														
13	Total Costs	2021M \$\$												329,981,545
14		2024 \$\$												100,000
15	Total Service Line Footage		104,645	16,542	121,188	46,579	16,273	11,667	0	0	0	0	0	
16	Percent of Total Footage		0.03%	0.01%	0.04%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
17	Allocated SL O&M Costs	2024 \$\$	\$15,531	\$2,455	\$17,986	\$6,913	\$2,415	\$1,732	\$0	\$0	\$0	\$0	\$0	\$48,973,451
18	Cost Per Customer	2024 \$\$	\$29.92	\$129.21	\$33.43	\$19.70	\$115.00	\$57.72	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.32
<b>Calculation of Customer Service &amp; Information</b>														
5	Total Cost:	2021 M\$\$			\$3,167	\$26	\$382	\$248	\$69	\$65	\$75	\$55	\$30	\$42,732
3	Cost Per Customer:	2021 \$\$			5,887.41	72.96	18,175.54	8,261.26	68,590.22	64,946.55	75,148.83	55,473.00	30,252.33	7.26
4		2024 \$\$			6,363.42	78.86	19,645.09	8,929.20	74,135.95	70,197.67	81,224.84	59,958.16	32,698.32	

Calculation of Customer Service & Information

139 Calculation of Customer Service & Information  
 140 907 Cus Svc-Supervision + Payroll Taxes  
 141 908 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM )  
 142 909 Cus Svc-Info & Instruction Exp  
 143 910 Cus Svc-Misc CSI Exp  
 144  
 147  
 148 CS&I O&M, 2021 \$000's  
 149

	SDG&E	South West Gas	Vernon	Total Whole sale	DGN	UBS	Total Noncore	SYSTEM TOTAL	Sources
1 <u>Calculation of CSI Cost Allocator:</u>									
2 Energy Markets Costs:	0.6	0.7	0.5	2.3	0.3	0.0	8.9	9.2	
3 Mgmt estimate - FTE	6.1%	7.1%	5.3%	25.0%	2.9%	0.0%	97.2%	100.0%	
4 Energy Markets	<b>\$54</b>	<b>\$63</b>	<b>\$46</b>	<b>\$221</b>	<b>\$25</b>	<b>\$0</b>	<b>\$859</b>	<b>\$884</b>	
5 <b>Energy Markets</b>									
6 Large C&I:									
7 # Large C&I Customers	0	0	0	0	0	0	538	2,929	2021 Customer Count
8 % Large C&I only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.4%	100.0%	
9 <b>Large C&amp;I</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,050</b>	<b>\$5,719</b>	
10 <b>NGV</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,553</b>	
11 <b>Residential</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,728</b>	
12 Small Business									
13 # C10, G-AC, G-GE Customers only	0	0	0	0	0	0	0	202,835	20213 Customer Count from SCG Cust Cost model "cust 2"
14 Small Business	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
15 <b>Small Business</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,617</b>	
16 Econ Development									
17 # Large C&I Customers	0	0	0	0	0	0	538	2,929	2013 Customer Count from SCG Cust Cost model "cust 2"
18 % Large C&I only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.4%	100.0%	
19 <b>Econ Development</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,534</b>	<b>\$8,353</b>	
20 <b>Other Residential</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$5,889</b>	
21 Total	\$54	\$63	\$46	\$221	\$25	\$0	\$3,444	\$35,743	\$35,743
22 <b>Allocator %</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.1%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>9.6%</b>	100.0%	

100.6%

SCG 2024 TCAP  
LRMC Customer Cost  
Weighted Average RECC and Replacement Factors

S10

Line			Excluded AVERAGE LABOR COST	AVERAGE METER COST	AVERAGE REGULATOR COST	AVERAGE TOTAL COST	WEIGHTED REPLACEMENT Percent	WEIGHTED RECC Percent	WEIGHTED PVRR
1.									
2.	<u>CUSTOMER CLASS</u>	<u>RATE</u>			Dollars				
3.	SINGLE FAMILY	GR	257.00	202.42	46.32	505.73	1.88%	8.65%	121.48%
4.	MULTIPLE FAMILY	GR	217.60	141.87	14.83	374.31	1.64%	8.65%	121.52%
5.	MASTER METERED BAND 1	GM,GS	841.28	504.51	295.51	1641.30	1.78%	8.56%	121.63%
6.	MASTER METERED BAND 2	GM,GS	17976.74	2677.02	1860.74	22514.50	0.73%	8.48%	121.93%
7.	RESIDENTIAL WEIGHTED AVERAGE		170.67	146.45	32.51	349.62	1.96%	8.66%	121.45%
8.	SMALL CORE BAND 1	G-10	340.12	263.02	104.02	707.17	1.93%	8.61%	121.53%
9.	SMALL CORE BAND 2	G-10	508.71	451.10	206.13	1165.95	2.08%	8.61%	121.50%
10.	SMALL CORE BAND 3	G-10	1159.64	728.69	434.08	2322.41	1.82%	8.57%	121.62%
11.	SMALL CORE BAND 4	G-10	3620.77	2445.16	1909.29	7975.21	1.95%	8.55%	121.63%
12.	SMALL CORE BAND 5	G-10	4897.05	3921.86	2931.85	11750.77	2.09%	8.56%	121.58%
13.	G10 AVERAGE		430.93	901.17	194.53	1,526.63	2.75%	8.75%	121.18%
14.	GAS COOLING	GAC	2605.71	1410.99	1070.05	5086.75	1.75%	8.54%	121.67%
15.	Natural Gas Vehicles	NGV	79940.63	4276.83	2079.11	86296.57	0.27%	8.46%	122.04%
16.	GAS ENGINES	GENG	1844.30	800.81	585.81	3230.92	1.54%	8.53%	121.72%
17.	NONCORE COMM/IND TRANSMISSION	G-30	275104.17	9282.22	2850.56	287236.96	0.16%	8.45%	122.07%
18.	NONCORE COMM/IND DISTRIBUTION	G-30	124688.07	6150.18	2799.23	133637.47	0.25%	8.46%	122.05%
19.	NONCORE COMM/IND TOTAL	G-30	130,000.16	6,260.79	2,801.04	139061.99	0.24%	8.46%	122.05%
20.	COGENERATION	G-50	94640.85	3504.80	1236.05	99381.70	0.18%	8.45%	122.06%
21.	EOR	G-40	371704.69	11358.89	2945.07	386008.65	0.14%	8.45%	122.07%
22.	SYSTEM AVERAGE		198.51	173.38	38.54	410.43	1.97%	8.66%	121.45%
22.	INVERSE OF BOOK LIFE		0.00%	4.00%	3.03%				
23.	RECC		8.44%	9.04%	8.12%				
23.	PVRR		122.12%	120.53%	122.09%				

SCG 2024 TCAP  
 LRMC Customer Cost  
 Weighted Average RECC and Replacement Factors

Weighted Average RECC and Replacement Factor for Exclusive Use Facilities

<u>Line</u>			GEMs	AVERAGE <u>TOTAL COST</u>	WEIGHTED <u>REPLACEMENT</u>	WEIGHTED <u>RECC</u>
	<u>RATE</u>		Dollars	Dollars	Percent	
1.						
2.	<u>CUSTOMER CLASS</u>					
3.	NONCORE COMM/IND TRANSMISSION	G-30	1,862,993	1,862,993	4.00%	9.04%
4.	NONCORE COMM/IND DISTRIBUTION	G-30	13,215,373	13,215,373	4.00%	9.04%
5.	NONCORE COMM/IND TOTAL	G-30	15,078,366	15,078,366	4.00%	9.04%
6.	COGENERATION	G-50	119,286,115	119,286,115	4.00%	9.04%
7.	EOR	G-40	1,534,910	1,534,910	4.00%	9.04%
8.	LONG BEACH		10,265,059	10,265,059	4.00%	9.04%
9.	SAN DIEGO GAS & ELECTRIC		26,384,543	26,384,543	4.00%	9.04%
10.	SOUTHWEST GAS		5,359,168	5,359,168	4.00%	9.04%
11.	VERNON		5,126,021	5,126,021	4.00%	9.04%
12.	DGN		754,438	754,438	4.00%	9.04%
13.	SYSTEM TOTAL		198,866,988	198,866,988	4.00%	9.04%
14.	INVERSE OF BOOK LIFE		4.00%			
15.	RECC factors		9.04%			

Source: Meter cost detail

# SOUTHERN CALIFORNIA GAS

## 2021 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

utility   social

Auth ROR ==> 7.30%

Fed Tax Rate ==> 21.00%

State Tax Rate ==> 8.84% d Valorum Rate ==>

1.342%

FERC Account	Account Name	Book Life	Fed Tax Life	State Tax Life	Percent Salvage	Normlzd Federal Taxes ?	Normlzd State Taxes ?	Depreciation Method		LACC Components (in percent)					RECC Factors	PVCC Factors	Sum of Rev Req		
								Federal Tax	State Tax	Book Depr	Return on Capital	Income Taxes	Property Taxes	Total LACC					
<b>GAS UNDERGROUND STORAGE</b>																			
		9	10	11	12	13	14	15	16	19	20	21	22	23	25	26	27		
G-352	Wells	49	15	22	-70%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.47	3.83	0.97	0.73	9.01	7.08	119.48	224.69
G-353	Lines	54	15	22	-40%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.59	4.41	1.09	0.87	8.97	6.99	120.14	282.24
G-354	Compressor Station Equipment	41	15	22	-15%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.80	4.46	1.11	0.88	9.26	7.43	119.86	276.35
G-356	Purification Equipment	39	15	22	-30%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.33	4.16	1.04	0.80	9.34	7.53	119.75	253.27
<b>GAS TRANSMISSION PLANT</b>																			
G-365.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	none	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
G-365.2	Land Rights	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	sl	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
G-366	Structures & Improvements	47	39	45	-40%	TRUE	FALSE	sl	0%	db/sl	0%	2.98	4.68	1.38	0.83	9.86	7.79	130.22	287.81
G-367	Mains	64	15	22	-60%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.50	4.40	1.09	0.87	8.86	6.81	120.09	265.76
G-368	Compressor Station Equipment	50	15	22	-15%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.30	4.67	1.15	0.94	9.06	7.11	120.42	309.85
G-369	Measuring & Regulating Equipment	46	15	22	-50%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.26	4.04	1.01	0.78	9.10	7.20	119.75	247.73
G-371	Other Equipment	21	15	22	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.24	4.08	1.10	0.74	11.16	9.69	118.09	203.20
<b>GAS DISTRIBUTION PLANT</b>																			
G-374.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	db/sl	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
G-374.2	Land Rights	40	40	40	0%	FALSE	FALSE	sl	0%	db/sl	0%	2.50	5.17	1.49	0.93	10.09	8.11	130.02	313.88
G-375	Structures & Improvements	40	39	45	-10%	TRUE	FALSE	sl	0%	db/sl	0%	2.75	4.99	1.47	0.89	10.10	8.12	130.11	302.03
G-376	Mains	68	20	35	-80%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.65	4.38	1.19	0.84	9.05	6.92	122.96	231.10
G-378	Measuring & Regulating Equipment	47	20	35	-95%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.15	3.50	1.00	0.62	9.27	7.32	122.34	191.81
G-380	Services	67	20	35	-115%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.21	3.94	1.11	0.73	8.99	6.89	122.09	150.81
G-381	Meters	25	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.80	4.62	1.34	0.86	10.62	9.04	120.53	229.99
G-382	Meter & Regulator Installations	30	20	35	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.67	4.41	1.24	0.82	10.14	8.44	122.12	243.24
G-383	House Regulators	33	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.88	4.77	1.32	0.91	9.88	8.12	122.09	266.77
G-387	Other Equipment	21	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.52	4.57	1.37	0.83	11.29	9.80	119.44	211.60
<b>GAS GENERAL PLANT</b>																			
G-390	Structures & Improvements	33	39	45	-15%	TRUE	FALSE	sl	0%	db/sl	0%	3.48	4.74	1.43	0.82	10.47	8.61	129.47	269.48
G-391.1	Office Furniture & Equipment	14	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	7.14	3.81	0.97	0.73	12.65	11.45	108.66	166.78
G-391.2	Computer Equipment	5	5	6	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	20.00	3.78	1.09	0.57	25.44	24.59	103.47	125.64
G-393	Stores Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
G-394.1	Shop & Garage Equipment	29	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.45	4.59	1.30	0.86	10.20	8.52	121.60	245.35
G-394.3	Large Portable Tools	24	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.17	4.50	1.31	0.82	10.80	9.23	120.67	223.46
G-395	Laboratory Equipment	25	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.00	4.52	1.30	0.83	10.65	9.06	120.88	227.84
G-397	Communications Equipment	15	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	6.07	3.82	0.96	0.74	12.19	10.96	108.93	171.15
G-398	Miscellaneous Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
G-391.5	Software Programs - 10yr ASL	10	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	10.00	3.51	0.76	0.68	14.95	13.91	103.58	146.07
G-391.55	Software Programs - 15yr ASL	15	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	6.67	3.61	0.74	0.74	11.75	10.57	105.06	167.96
G-391.6	Software Programs - 20yr ASL	20	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	5.00	3.74	0.74	0.79	10.26	8.96	106.26	189.85
G-391.3	Software Programs - 3yr ASL	3	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	33.33	3.76	1.08	0.47	38.65	37.98	100.87	115.42
G-391.4	Software Programs - 6yr ASL	6	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	16.67	3.52	0.84	0.60	21.63	20.74	102.14	128.56

<b>Calculation of Marginal Customer Costs 2024 \$/Customer</b>					
<b>Customer Class</b>	<b>CAPEX \$/customer</b>	<b>RECC %</b>	<b>Annualized CAPEX (\$/customer/year)</b>	<b>O&amp;M and Loaders (\$/customer/ year)</b>	<b>Marginal Unit Cost 2024 (\$/customer/ year)</b>
Residential	\$1,936.79	7.37%	\$142.76	\$145.62	\$288.38
Core C/I <sup>14</sup>	\$12,388.50	7.09%	\$878.76	\$724.76	\$1,603.52
Gas A/C <sup>15</sup>	\$84,402.52	6.99%	\$5,899.62	\$4,473.91	\$10,373.53
Gas Engine <sup>16</sup>	\$208,702.74	6.91%	\$14,426.44	\$1,071.41	\$15,497.85
NGV	\$178,300.01	7.68%	\$13,695.81	\$29,927.56	\$43,623.37
Noncore C/I <sup>17</sup>	\$587,618.19	7.39%	\$43,399.46	\$24,452.12	\$67,851.57
Small EG <sup>18</sup>	\$294,166.14	7.44%	\$21,884.11	\$10,346.66	\$32,230.78
Large EG <sup>19</sup>	\$1,703,116.58	8.13%	\$138,533.17	\$68,605.03	\$207,138.21
EOR <sup>20</sup>	\$728,828.22	7.90%	\$57,602.56	\$34,008.27	\$91,610.84
Long Beach <sup>21</sup>	\$10,265,059.48	9.04%	\$927,589.73	\$246,637.98	\$1,174,227.71
SDG&E <sup>22</sup>	\$26,384,543.35	9.04%	\$2,384,207.47	\$231,542.60	\$2,615,750.06
Southwest Gas <sup>23</sup>	\$5,359,168.35	9.04%	\$484,274.79	\$305,655.23	\$789,930.02
Vernon <sup>24</sup>	\$5,126,021.11	9.04%	\$463,206.72	\$178,378.16	\$641,584.88
Ecogas <sup>25</sup>	\$754,437.82	9.04%	\$68,173.86	\$101,400.99	\$169,574.86

<sup>14</sup> Core C&I are the Core Commercial & Industrial customers

<sup>15</sup> Gas A/C are the Gas Air Conditioning for Commercial & Industrial customers

<sup>16</sup> Gas Engine are Core Gas Engine Water Pumping Service for Commercial and Industrial

<sup>17</sup> Noncore C/I are Noncore Commercial & Industrial customers

<sup>18</sup> Small EG are Electric Generation customers with usage less than 3 million therms/year

<sup>19</sup> Large EG are Electric Generation customers with usage greater than 3 million therms/year

<sup>20</sup> EOR are Enhanced Oil Refinery customers

<sup>21</sup> Long Beach is the Wholesale - City of Long Beach customer

<sup>22</sup> SDG&E is the Wholesale – San Diego Gas & Electric customer

<sup>23</sup> SW Gas is the Wholesale – Southwest Gas Corporation’s service territory in southern California

<sup>24</sup> Vernon is the Wholesale – City of Vernon customer

<sup>25</sup> Ecogas is the Wholesale – ECOGAS Mexico, S. de R.L. de C.V. customer

**SoCalGas  
2024 TCAP**

**Section 3  
O&M Loaders Model for LRMC Studies**

**SCG 2024 TCAP  
LRMC O&M Loader Model**

**Output**

	Output	Source	
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	87.201%	A&G	87.201%
General Plant Loading Factor as a % of O&M expenses	86.831%	Gen Plant	86.831%
Customer Related Distribution M&S Costs 2024\$000/yr	\$1,807,161	M&S	\$1,807,161
Demand Related Distribution M&S Costs 2024\$000/yr	\$2,479,091	M&S	\$2,479,091
2021-24 Factor: Capital Plant	0.9874	Escalation Factors	0.9874
2021-24 Factor: O&M	1.0809	Escalation Factors	1.0809
2021-24 Factor: Capital Meter	1.0453	Escalation Factors	1.0453
2021-24 Factor: Capital Service	1.0525	Escalation Factors	1.0525

**Input from EC Model:**

Transmission A&G	\$66.446	EC Study of Frank Seres
Storage A&G	\$35.827	EC Study of Frank Seres
Total A&G	\$581.486	EC Study of Frank Seres
Transmission General Plant Return	\$3.913	EC Study of Frank Seres
Transmission Gen Plant Dep	\$24.051	EC Study of Frank Seres
Transmission Gen Plant Taxes	\$1.214	EC Study of Frank Seres
Storage General Plant Return	\$2.110	EC Study of Frank Seres
Storage Gen Plant Dep	\$12.968	EC Study of Frank Seres
Storage Gen Plant Taxes	\$0.655	EC Study of Frank Seres
Total Gen Plant Return	\$34.243	EC Study of Frank Seres
Total Gen Plant Dep	\$210.479	EC Study of Frank Seres
Total Gen Plant Taxes	\$10.625	EC Study of Frank Seres



**2024 TCAP A&G LOADER ANALYSIS**  
**O&M Costs Used in A&G Loader**

	2021 Recorded Costs (\$)	source:
1. Total O&M	3,629,062,136	FERC Form 2 line no 271, page 325 less page 335, line
2. Total Production Expenses (incl Purchased Gas cost)	1,618,757,956	FERC Form 2 line no 97, page 320
3. Total Transmission Expenses	1/ 227,632,079	FERC Form 2 line no 201, page 323
4. Total Storage Expenses	1/ 84,614,222	FERC Form 2 line no 125, page 321
5. Total A&G Expenses	743,492,511	FERC Form 2 line no 270, page 325, less page 335, line
6. Exclusions	2/ 633,539,703	From Regulatory Accounting
7.		
8. Subtotal of Costs removed from O&M	3,308,036,471	
9. Net O&M	<u><u>321,025,665</u></u>	

Notes:

- 1/ Transmission and Storage expenses removed from A&G loader, because SoCalGas proposes to separately scale transmission and storage costs to embedded transmission and storage cost.
- 2/ Exclusions E all costs below that are not part of authorized base margin.
- 3/ Exclude Part of Transmission expenses

Rows (1) through (7) contain data from FERC Form 2 for 2021, pages 320-325  
Row (8) = Sum [ Row (2) : Row (7) ]  
Row (9) = Row (1) - Row (8)

Exclusions

	2021	
Title of Account	Total O&M Costs w/ Labor	
Assembly Bill 802 Memorandum Account	\$213,621	
Avoided Cost Calculator Update Memorandum Account	(\$300,367)	
Aliso Canyon True-up Tracking Account	\$0	From Reg Accounts Group
Advanced Metering Infrastructure Balancing Account	\$0	
Advanced Meter Opt-Out Program Balancing Account	\$0	
Biomethane Cost Incentive Program Balancing Account	\$8,000,000	
California Alternate Rates for Energy Account	\$7,800,126	
Climate Adaption Vulnerability Assessment Memorandum Account	\$12,136	
California Consumer Privacy Act Memorandum Account	\$92,369	
Catastrophic Event Memorandum Account	\$7,278,953	
Core Fixed Cost Account	(\$2,729,574)	
Compressor Station Fuel & Power Balancing Account	\$11,333,025	
Core Gas Balancing Memorandum Account	\$157,418	
Covid-19 Pandemic Protections Memorandum Account	\$788,611	
California Solar Initiative Thermal Program Memorandum Account	\$2,998,877	
Direct Assistance Program Balancing Account (low income EE)	\$115,795,522	
Dairy Biomethane Project Balancing Account	\$40,574,380	
Dairy Biomethane Project Memorandum Account	\$212,207	
Dairy Biomethane Solicitation Development Memorandum Account	\$0	

**TABLE 2**  
**A&G and Payroll Taxes Loading Factor**

**SOUTHERN CALIFORNIA GAS COMPANY**

DESCRIPTION	2024 TCAP (\$)	source
1. Total Marginal A&G Costs	\$231,529,646	A&G 1 tab
2. Total Payroll Taxes	48,408,248	(SS + Fed&CA
3. Marginal A&G and Payroll Taxes	279,937,895	Row 1 + Row 2
4. Net O&M Costs	321,025,665	O&M Costs tab
5. Marginal A&G/Payroll Taxes Loading Factor	<b>87.20%</b>	Row 3 / Row 4
6. Transmission and Storage adjustment	17.59%	EC study

Notes:  
 Data Source: FERC Form 2

Fed. Unemployment Insurance Tax	382,386	FERC Form 2, p. 263a (SS + Fed&CA L
Social Security Tax	70,653,507	FERC Form 2, p. 263a (SS + Fed&CA L
State Unemployment Insurance Tax	1,143,096	FERC Form 2, p. 263a (SS + Fed&CA L
Total	72,178,989	

2024 TCAP Phase II A&G LOADER ANALYSIS  
 Marginal vs Non-marginal Summary

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Account Title	PUC Account	Marginal Cost	Marginal Portion of Total	Non-Marginal Cost	Non-Marginal Portion of Total	Total Cost	2021 Recorded Total Cost Per FERC Form 2	Source
		(\$)	(%)	(\$)	(%)	(\$)	(\$)	
1. A&G Salaries	920	\$3,261	0.00%	\$96,294,297	14.15%	\$96,297,558	\$96,297,561	FERC Form 2 line no 254, page 325
2. Office Supplies and Exp	921	1,683,639	0.25%	25,241,462	3.71%	26,925,101	26,925,101	FERC Form 2 line no 255, page 325
3. Admin Expenses Transferred	922	0	0.00%	(10,709,919)	-1.57%	(10,709,919)	(10,709,919)	FERC Form 2 line no 256, page 325
4. Outside Services Employed	923	0	0.00%	189,697,344	27.87%	189,697,344	189,697,349	FERC Form 2 line no 257, page 325
5. Property Insurance	924	6,464,195	0.95%	0	0.00%	6,464,195	6,464,195	FERC Form 2 line no 258, page 325
6. Injuries and Damages	925	66,079,211	9.71%	0	0.00%	66,079,211	66,079,212	FERC Form 2 line no 259, page 325
7. Employee Pensions & Benefits	926	228,341,255	33.54%	0	0.00%	228,341,255	228,341,248	FERC Form 2 line no 260, page 325
8. Regulatory Commission Expenses	928	0	0.00%	7,403,259	1.09%	7,403,259	7,403,259	FERC Form 2 line no 262, page 325
9. Misc General Expenses	930	54,064	0.01%	23,721,436	3.48%	23,775,500	23,775,500	FERC Form 2 line no 265, page 325 les
10. Rents	931	4,858,919	0.71%	17,012,626	2.50%	21,871,545	21,871,545	FERC Form 2 line no 266, page 325
11. Maintenance of Gen Plant	932	24,572,418	3.61%	0	0.00%	24,572,418	24,572,417	FERC Form 2 line no 269, page 325
12. Total		<u>332,056,960</u>	48.78%	<u>348,660,505</u>	51.22%	<u>680,717,465</u>	<u>680,717,468</u>	

Pensions and benefits on non-marginal A&G labor	(35,551,855)	35,551,855	<== The Pension & Benefits OH Planning Rate for 2021 is 36.92%
Pensions and benefits on exclusions	(15,562,813)	15,562,813	<== 36.92% on the labor portion of exclusions
	280,942,293	399,775,172	
Payroll Taxes on non-marginal A&G labor	(7,703,544) <= Tax loader on non-marginal labor	7,703,544	The SCG Payroll Tax OH rate for 2016 is 8.00% (Average for 2021).
Payroll taxes on exclusions	(3,372,224) <= Tax loader on exclusions	3,372,224	

<u>Payroll Tax</u>	<u>P&amp;B</u>		
8.00%	36.92%		
3,372,224	15,562,813	42,152,798 Labor Exclusion	From Reg Accounting.

Color Key: Input Data, Source Data from other tab, calculation  
 Col (1) & Col (2) account description  
 Col (3) contains data from 'Marginal - Nonmarginal' tab  
 Col (4) = Col (3) / Col (7)  
 Col (5) contains data from 'Marginal - Nonmarginal' tab  
 Col (6) = Col (5) / Col (7)  
 Col (7) = Col (3) + Col (5)  
 Col (8) data from FERC Form 2 for 2021

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	PUC Account Number	FERC Account No.	Marginal Y/N	2021 Recorded Costs Direct (\$)	Reassigned (\$)	(5) + (6) Total (\$)	Marginal (\$)	Non-Marginal (\$)
FERC Cost Center Description								
1. BLDG OPER OTH THAN CLEANING SV	920	920.601	Y	\$ 2,753	\$ 503	\$ 3,257	\$ 3,257	\$ -
2. PROCUREMENT & LOGISTICS CONSULT	920	920.630	Y	-	-	-	-	-
3. REAL ESTATE	920	920.604	Y	-	-	-	-	-
4. BUILDING CLEANING SERVICES	920	920.600	Y	-	4	4	4	-
5. RETURN TO WORK EXAMINATIONS	920	920.212	Y	-	-	-	-	-
6. SUPPLIER MANAGEMENT	920	920.632	Y	-	-	-	-	-
ACCOUNT 920 MARGINAL TOTAL				2,753	507	3,261	3,261	-
7. ADMINISTRATIVE & GENERAL SALARIES	920	920.000	N	76,791,664	4,402,416	81,194,080	-	81,194,080
8. HUMAN RESOURCES OPER SALARIES	920	920.200	N	8,934,472	2,042,211	10,976,683	-	10,976,683
9. REGIONAL AFFAIRS	920	920.570	N	3,282,636	733,343	4,015,979	-	4,015,979
10. END USER SUPPORT COMM	920	920.372	N	-	-	-	-	-
11. COMPUTER END USER SUPPORT	920	920.371	N	349	405	754	-	754
12. REGION MANAGER SALARIES	920	920.047	N	-	-	-	-	-
13. PUBLIC AFFAIRS ADMINISTRATION	920	920.570	N	-	-	-	-	-
14. OPERATE MAINFRAME COMPUTERS GEN	920	920.360	N	-	-	-	-	-
15. STANDARD & CODES	920	920.561	N	-	-	-	-	-
16. INFORMATION SYS GENL SUPERVISION	920	920.301	N	27,309	79,493	106,802	-	106,802
17. INFORMATION SYS ADMIN SUPPORT	920	920.302	N	-	-	-	-	-
18. INFORMATION SYSTEMS	920	920.300	N	-	-	-	-	-
19. GOVERNMENTAL AFFAIRS SALARIES	920	920.560	N	-	-	-	-	-
20. PSEP - A&G SALARIES	920	920.850	N	-	-	-	-	-
21. Reassignment Only	920	920.010	N	-	-	-	-	-
ACCOUNT 920 NON-MARGINAL TOTAL				89,036,430	7,257,867	96,294,297	-	96,294,297
22. BLDG OPER OTH THAN CLEANING SV	921	921.601	Y	1,533,162	(32,941)	1,500,221	1,500,221	-
23. BUILDING CLEANING SERVICES	921	921.600	Y	182,017	885	182,902	182,902	-
24. PROCUREMENT & LOGISTICS CONSULT	921	921.630	Y	-	-	-	-	-
25. REAL ESTATE	921	921.604	Y	416	100	516	516	-
ACCOUNT 921 MARGINAL TOTAL				1,715,595	(31,956)	1,683,639	1,683,639	-
27. ADMINISTRATIVE & GENERAL SALARIES	921	921.000	N	23,623,084	(1,709,634)	21,913,450	-	21,913,450
28. HUMAN RESOURCES OPER SALARIES	921	921.200	N	281,161	5,984	287,145	-	287,145
29. COMPUTER END USER SUPPORT	921	921.371	N	302,741	(40,611)	262,130	-	262,130
30. REGIONAL AFFAIRS	921	921.571	N	242,768	(6,493)	236,275	-	236,275
31. PUBLIC AFFAIRS ADMINISTRATION	921	921.563	N	276	(8)	267	-	267
32. REGION MANAGER SALARIES	921	921.047	N	-	-	-	-	-
33. STANDARD & CODES	921	921.561	N	864	(36)	829	-	829
34. INFORMATION SYS GENL SUPERVISION	921	921.301	N	3,025,789	701,796	3,727,585	-	3,727,585
35. PSEP-A&G OFFICE SUPL	921	921.850	N	-	-	-	-	-
36. FERC B/S ERRORS	921	921.999	N	-	(1,186,219)	(1,186,219)	-	(1,186,219)
ACCOUNT 921 NON-MARGINAL TOTAL				27,476,683	(2,235,222)	25,241,462	-	25,241,462
37. ADMINISTRATIVE EXPENSES TRANSFERRED-CRED	922	922.000	N	-	(7,586,790)	(7,586,790)	-	(7,586,790)
38. HR-CAP A&G TRANS CR	922	922.200	N	-	(2,152,634)	(2,152,634)	-	(2,152,634)
39. IS GEN SUP-CAP AG CR	922	922.301	N	-	89,628	89,628	-	89,628
40. PA ADM-CAP A&G TR CR	922	922.563	N	-	(100)	(100)	-	(100)
41. REG AF-CAP A&G TR CR	922	922.570	N	-	(1,059,607)	(1,059,607)	-	(1,059,607)
42. BLD CLNG-CP AG TR CR	922	922.600	N	-	(416)	(416)	-	(416)
43. RE - CAP A&G TRN CR	922	922.604	N	-	-	-	-	-
ACCOUNT 922 NON-MARGINAL TOTAL				-	(10,709,919)	(10,709,919)	-	(10,709,919)
44. OUTSIDE SERVICES EMPLOYED	923	923.000	N	52,534,630	137,162,714	189,697,344	-	189,697,344
45. PSEP -OUTSIDE SERVICES	923	923.850	N	-	-	-	-	-
ACCOUNT 923 NON-MARGINAL TOTAL				52,534,630	137,162,714	189,697,344	-	189,697,344

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	PUC Account Number	FERC Account No.	Marginal Y/N	2021 Recorded Costs Direct	Reassigned	(5) + (6) Total	Marginal	Non-Marginal
FERC Cost Center Description								
46. INSURANCE EXPENSE	924	924.000	Y	5,901,492	562,703	6,464,195	6,464,195	-
ACCOUNT 924 MARGINAL TOTAL				5,901,492	562,703	6,464,195	6,464,195	-
47. INJURIES AND DAMAGES	925	925.000	Y	62,133	(1,846,681)	(1,784,548)	(1,784,548)	-
48. ACCIDENT PREV & SAFE	925	925.160	Y	5,134,995	870,018	6,005,012	6,005,012	-
49. A&G EMERGENCY PREP	925	925.180	Y	1,917,498	310,126	2,227,624	2,227,624	-
50. COLL WORKERS COMP	925	925.300	Y	19,960,612	(4,849,601)	15,111,011	15,111,011	-
51. COLL PLFD	925	925.310	Y	55,100,544	(10,580,432)	44,520,112	44,520,112	-
52. PSEP - INJUR & DAMAG	925	925.850	Y	-	-	-	-	-
ACCOUNT 925 MARGINAL TOTAL				82,175,782	(16,096,571)	66,079,211	66,079,211	-
53. EMPLOYEE PENSIONS AND BENEFITS	926	926.000	Y	2,975,662	38,008,354	40,984,016	40,984,016	-
54. TRANSPORTATION PROGRAM	926	926.239	Y	133,227	(133,227)	-	-	-
55. EMPLOYEE RECOGNITION PROGRAM	926	926.200	Y	8,123,061	(8,117,534)	5,527	5,527	-
56.	926	926.207	Y	-	-	-	-	-
57. COLLECTIBLE P&B	926	926.300	Y	245,798,389	(58,446,677)	187,351,712	187,351,712	-
ACCOUNT 926 MARGINAL TOTAL				257,030,338	(28,689,083)	228,341,255	228,341,255	-
58. BLDG SUPPORT CANTEEN GASCO TWR	926	926.202	N	-	-	-	-	-
ACCOUNT 926 NON-MARGINAL TOTAL				-	-	-	-	-
59. INTERVENOR COMPENSATION	928	928.500	N	571,804	-	571,804	-	571,804
60. REGULATORY COMMISSION EXPENSES	928	928.000	N	4,042,136	2,789,318	6,831,455	-	6,831,455
ACCOUNT 928 NON-MARGINAL TOTAL				4,613,940	2,789,318	7,403,259	-	7,403,259
61. DIVISION STATIONERY EXPENSE	930	930.625	Y	9,191	56	9,248	9,248	-
62. DUPLICATING EQUIP DIST & TRANS	930	930.600	Y	44,536	280	44,816	44,816	-
ACCOUNT 930 MARGINAL TOTAL				53,727	337	54,064	54,064	-
63. GENERAL ADVERT EXP	930	930.100	N	1,235,009	4,959	1,239,968	-	1,239,968
64. MISCELLANEOUS GENERAL EXPENSES	930	930.200	N	13,739,216	9,973,882	23,713,098	-	23,713,098
65. MISC DIV OFFICE EXPENSES	930	930.046	N	6,397	(60)	6,338	-	6,338
ACCOUNT 930 NON-MARGINAL TOTAL				13,747,613	9,973,822	23,721,436	-	23,721,436
66. RENTS DISTRIB AND TRANSM REGIONS	931	931.602	Y	5,966,514	(1,107,595)	4,858,919	4,858,919	-
ACCOUNT 931 MARGINAL TOTAL				5,966,514	(1,107,595)	4,858,919	4,858,919	-
67. GAS COMPANY TOWER RENTS	931	931.600	N	16,814,530	(799,959)	16,014,571	-	16,014,571
68. RENTS GENERAL	931	931.000	N	22,474	975,581	998,055	-	998,055
ACCOUNT 931 NON-MARGINAL TOTAL				16,837,004	175,622	17,012,626	-	17,012,626
69. BLDG YARD & EQUIP MAINTENANCE	935	935.600	Y	21,073,769	286,065	21,359,834	21,359,834	-
70. MAINTENANCE FURN OFFICE EQUIP	935	935.601	Y	18,596	(405)	18,191	18,191	-
71. MEAS SHOP EQUIP	935	935.675	Y	128,928	1,623	130,550	130,550	-
72. GARAGE/FUEL ISLAND MAINTENANCE	935	935.606	Y	1,620,271	512,971	2,133,242	2,133,242	-
73. COMPR MTC CNG VEHICLES	935	935.605	Y	23,292	(59,095)	(35,803)	(35,803)	-
74. TESTRACK MAINTENANCE	935	935.680	Y	-	-	-	-	-
75. MAINTENANCE OF GENERAL PLANT	935	935.000	Y	45,371	921,033	966,404	966,404	-
ACCOUNT 935 MARGINAL TOTAL				22,910,225	1,662,193	24,572,418	24,572,418	-
<b>TOTAL A&amp;G</b>				<b>580,002,728</b>	<b>100,714,737</b>	<b>680,717,465</b>	<b>332,056,960</b>	<b>348,660,505</b>

2024 TCAP A&G LOADER ANALYSIS  
2021 RECORDED COSTS

FERC Account	LABOR	NON_LABOR	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
920.000 Total	\$76,791,664		\$76,791,664	\$ 4,402,416	\$81,194,080
920.010 Total			\$0	\$ 0	\$0
920.047 Total			\$0	\$ 0	\$0
920.200 Total	\$8,934,472		\$8,934,472	\$ 2,042,211	\$10,976,683
920.212 Total			\$0	\$ 0	\$0
920.300 Total			\$0	\$ 0	\$0
920.301 Total	\$27,309		\$27,309	\$ 79,493	\$ 106,802
920.302 Total			\$0	\$ 0	\$0
920.360 Total			\$0	\$ 0	\$0
920.371 Total	\$349		\$349	\$ 405	\$754
920.372 Total			\$0	\$ 0	\$0
920.372 Total			\$0	\$ 0	\$0
920.563 Total	\$0		\$0	\$ 0	\$0
920.561 Total	\$0		\$0	\$ 0	\$0
920.563 Total	\$0		\$0	\$ 0	\$0
920.570 Total	\$3,282,636		\$3,282,636	\$ 733,343	\$4,015,979
920.600 Total	\$0		\$0	\$ 4	\$4
920.601 Total	\$2,753		\$2,753	\$ 503	\$3,257
920.604 Total			\$0	\$ 0	\$0
920.630 Total			\$0	\$ 0	\$0
920.632 Total			\$0	\$ 0	\$0
920.850 Total	\$0		\$0	\$ 0	\$ 0
	<u>\$ 89,039,183</u>	<u>\$ 0</u>	<u>\$ 89,039,183</u>	<u>\$ 7,258,375</u>	<u>\$ 96,297,558</u>
921.000 Total		\$23,623,084	\$23,623,084	-\$ 1,709,634	\$21,913,450
921.047 Total			\$0	\$ 0	\$ 0
921.200 Total		\$ 281,161	\$281,161	\$ 5,984	\$287,145
921.301 Total		\$ 3,025,789	\$3,025,789	\$ 701,796	\$3,727,585
921.371 Total		\$ 302,741	\$302,741	-\$ 40,611	\$262,130
921.561 Total		\$ 864	\$864	-\$ 36	\$829
921.563 Total		\$ 276	\$276	-\$ 8	\$267
921.570 Total		\$ 242,768	\$242,768	-\$ 6,493	\$236,275
921.600 Total		\$ 182,017	\$182,017	\$ 885	\$182,902
921.601 Total		\$ 1,533,162	\$1,533,162	-\$ 32,941	\$1,500,221
921.604 Total		\$ 416	\$416	\$ 100	\$516
921.630 Total			\$0	\$ 0	\$0
921.850 Total		\$ 0	\$0	\$ 0	\$0
921.999 Total			\$0	-\$ 1,186,219	(\$1,186,219)
	<u>\$ 0</u>	<u>\$ 29,192,278</u>	<u>\$ 29,192,278</u>	<u>-\$ 2,267,177</u>	<u>\$ 26,925,101</u>

2024 TCAP A&G LOADER ANALYSIS  
2021 RECORDED COSTS

FERC Account	LABOR	NON_LABOR	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
922.000 Total			\$0	-\$ 7,586,790	(\$7,586,790)
922.200 Total			\$0	-\$ 2,152,634	(\$2,152,634)
922.301 Total			\$0	\$ 89,628	\$89,628
922.563 Total			\$0	-\$ 100	(\$100)
922.570 Total			\$0	-\$ 1,059,607	(\$1,059,607)
922.600 Total			\$0	-\$ 416	(\$416)
922.604 Total			\$0	\$ 0	\$0
	\$ 0	\$ 0	\$ 0	-\$ 10,709,919	-\$ 10,709,919
923.000 Total	\$1,391,558	\$51,143,072	\$52,534,630	\$ 137,162,714	\$189,697,344
923.850 Total	\$0	\$0	\$0	\$ 0	\$0
	\$ 1,391,558	\$ 51,143,072	\$ 52,534,630	\$ 137,162,714	\$ 189,697,344
924.000 Total	\$0	\$5,901,492	\$5,901,492	\$ 562,703	\$6,464,195
925.000 Total	\$1,565,655	(\$1,503,522)	\$62,133	(\$1,846,681)	(\$1,784,548)
925.160 Total	\$3,418,284	\$1,716,711	\$5,134,995	\$870,018	\$6,005,012
925.180 Total	\$790,451	\$1,127,047	\$1,917,498	\$310,126	\$2,227,624
925.300 Total		\$19,960,612	\$19,960,612	(\$4,849,601)	\$15,111,011
925.310 Total		\$55,100,544	\$55,100,544	(\$10,580,432)	\$44,520,112
925.850 Total	\$0	\$0	\$0	\$0	\$0
	\$5,774,389	\$76,401,393	\$82,175,782	(\$16,096,571)	\$66,079,211
926.000 Total	\$2,064,039	\$911,623	\$2,975,662	\$38,008,354	\$40,984,016
926.200 Total	\$14,500	\$8,108,561	\$8,123,061	(\$8,117,534)	\$5,527
926.202 Total	\$0	\$0	\$0	\$0	\$0
926.207 Total	\$0	\$0	\$0	\$0	\$0
926.239 Total		\$133,227	\$133,227	(\$133,227)	\$0
926.300 Total	\$2,293	\$245,796,096	\$245,798,389	(\$58,446,677)	\$187,351,712
	\$2,080,832	\$254,949,506	\$257,030,338	(\$28,689,083)	\$228,341,255
928.000 Total	\$3,739,390	\$302,746	\$4,042,136	\$2,789,318	\$6,831,455
928.500 Total		\$571,804	\$571,804	\$0	\$571,804
	\$3,739,390	\$874,550	\$4,613,940	\$2,789,318	\$7,403,259
930.046 Total		\$8,397	\$8,397	(\$60)	\$8,338
930.100 Total		\$1,235,009	\$1,235,009	\$4,959	\$1,239,968
930.200 Total	\$3,318,318	\$10,420,898	\$13,739,216	\$9,973,882	\$23,713,098
930.600 Total		\$44,536	\$44,536	\$280	\$44,816
930.625 Total		\$9,191	\$9,191	\$56	\$9,248
	\$3,318,318	\$11,718,032	\$15,036,350	\$9,979,118	\$25,015,468
931.000 Total		\$22,474	\$22,474	\$975,581	\$998,055
931.600 Total		\$16,814,530	\$16,814,530	(\$799,959)	\$16,014,571
931.602 Total		\$5,966,514	\$5,966,514	(\$1,107,595)	\$4,858,919
	\$0	\$22,803,518	\$22,803,518	(\$931,973)	\$21,871,545
935.000 Total		\$45,371	\$45,371	\$921,033	\$966,404
935.600 Total	\$3,648,377	\$17,425,392	\$21,073,769	\$286,065	\$21,359,834
935.601 Total		\$18,596	\$18,596	(\$405)	\$18,191
935.605 Total	\$22,727	\$565	\$23,292	(\$59,095)	(\$35,803)
935.606 Total	\$875,881	\$744,390	\$1,620,271	\$512,971	\$2,133,242
935.675 Total	\$109,601	\$19,326	\$128,928	\$1,623	\$130,550

2024 TCAP A&G LOADER ANALYSIS  
 2021 RECORDED COSTS

FERC Account	LABOR	NON_LABOR	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
935.680 Total	\$0	\$0	\$0	\$0	\$0
	\$5,183,530	\$14,015,213	\$22,910,225	\$1,662,193	\$24,572,418
	\$110,527,200	\$466,999,054	\$581,237,737	\$100,719,696	\$681,957,433



**Weighted Average RECC Calculation**

Account No.	General Plant Accounts	Gas Plant In Service Year End 2021		RECC	Weighted Average RECC		Source
		Balance (\$)	Percent		RECC	Source	
1.	390	Structures and Improvements	257,107,747	23.86%	8.615%	2.056%	FERC Form 2 line no 112, page 209
2.	391	Office Furniture and Equipment					
3.	391.1	Office Furn & Equip-ME & FF	3,629,862	0.34%	11.446%	0.039%	
4.	391.2	Computer Equip	103,310,104	9.59%	24.587%	2.357%	
	391.25	Computer Hardware AMI	35,476	0.00%	24.587%	0.001%	
5.	391.3	Computer Software 2-4years	13,273,506	1.23%	37.982%	0.468%	
	391.35	Computer Software AMI	499,916	0.05%	20.736%	0.010%	
6.	391.4	Computer Software 5-8years	305,598,813	28.36%	20.736%	5.881%	
7.	391.5	Computer Software 9-12years	41,196,318	3.82%	13.908%	0.532%	
8.	391.55	Computer Software 15years	2,642,267	0.25%	10.568%	0.026%	
9.	391.6	Computer Software 20years	1,316,245	0.12%	8.959%	0.011%	
10.	392	Transportation Equipment	149,370	0.01%	10.091%	0.001%	FERC Form 2 line no 114, page 209
11.	393	Stores Equipment	112,635	0.01%	10.091%	0.001%	FERC Form 2 line no 115, page 209
12.	394	Tools, Shop, and Garage Equipment	123,277,589	11.44%	9.230%	1.056%	FERC Form 2 line no 116, page 209
13.	395	Laboratory Equipment	8,399,288	0.78%	9.062%	0.071%	FERC Form 2 line no 117, page 209
14.	396	Power Operated Equipment	1,124	0.00%	10.091%	0.000%	FERC Form 2 line no 118, page 209
15.	397	Communication Equipment	215,572,989	20.01%	10.957%	2.192%	FERC Form 2 line no 119, page 209
16.	398	Miscellaneous Equipment	1,444,836	0.13%	10.091%	0.014%	FERC Form 2 line no 120, page 209
17.			<u>1,077,568,085</u>	<u>100.00%</u>		<u>14.714%</u>	

**Reflects 2021 FERC Form 2 data. RECC factors updated.**

Gas Plant updated to 2021 FERC Form 2 data

RECC factors updated to 2021 values

**General Plant Loading Factor**

	<u>2024 TCAP</u>		<u>Sources</u>
1. Total General Plant	\$2,298,849,117		FERC Form 2, page 209, line 121
Transmission and Storage adjustment	<b>17.59%</b>		
Net Total General Plant after Storage adj.	<u>\$1,894,523,312</u>	ck	
1. Weighted Average RECC for General Plant	14.71%		RECC tab
2. Annualized General Plant Costs	\$278,751,022	1 x 2	
3. Net Recorded O&M Costs	\$321,025,665		O&M Expenses tab
4. General Plant Loading Factor	<b>86.83%</b>	3 / 4	
6. Transmission and Storage adjustment	17.59%		EC study

Notes:

1/ Total General Plant on Line 1 reflects removal of GP allocated to Transmission and Storage functions in EC study.

**Reflects 2021 FERC Form 2 data for total General Plant.**

**2021 FERC Form 2 data  
M&S Annual Costs By Function**

**I. Direct Plant Investment (To Allocate M&S Cost to Functions)**

Line #	Function	Plant	Percent
1	Storage	\$1,917,731,794	9.87%
2	Transmission - Total	\$4,456,171,042	22.93%
3	Distribution - Total	\$13,058,897,985	67.20%
4	Customer Related	\$5,795,758,029	29.82%
5	Load Related	\$7,263,139,956	37.38%
6	General Plant	\$0	0.00%
7	Total	\$19,432,800,821	100.00%

FERC form 2, p. 207, line 57  
FERC form 2, p. 209, line 92  
from Allocation of Investment tab  
from Allocation of Investment tab  
from Allocation of Investment tab

**II. Total M&S To Be Functionalized**

8	Total Material and Supplies	\$65,353,863
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2021 FERC Year end M&S value from Selected Financial Data  
(from Net Plant Investment Page 1 of 2, Line 13)

**III. Functional Allocation of M&S**

9	Storage	\$6,449,466	9.87%
10	Transmission - Total	\$14,986,414	22.93%
11	Distribution - Total	\$43,917,984	67.20%
12	Customer Related	\$19,491,538	29.82%
13	Load Related	\$24,426,446	37.38%
14	General Plant	\$0	0.00%
15	Total	\$65,353,863	100.00%

16	IV. M&S Annual Cost factor	9.39%
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from Annual Cost Factor tab, check with one correct

**V. M&S Annual Costs**

	2021 \$		2024 \$
17	Storage	\$605,605	\$597,963
18	Transmission - Total	\$1,407,224	\$1,389,468
19	Distribution - Total	\$4,123,899	\$4,071,863
20	Customer Related	\$1,830,255	<b>\$1,807,161</b>
21	Load Related	\$2,293,643	\$2,264,702
22	General Plant	\$0	\$0
23	Total	\$6,136,728	\$6,059,294

@ O&M Escalation 2021 to 2024

1.081 **\$2,479,091**

\*escalated by capital factor: 2021\$ to 2024\$ 0.987  
**Updated to FERC Form 2 data for 2021**

**Updated to FERC Form 2 data for 2021**

**2024 TCAP Phase M&S Annual Costs By Function**  
**Allocation of 2021 Distribution Plant Investment**

**Customer Related**

	\$	Percent
1. 380 Services	3,551,498,851	
2. 381 Meters	986,390,272	
3. 382 Meter Installations	640,766,147	
4. 383 House Regulators	188,953,322	
5. 386 Other Property on Customer Premise	0	
6. Sub-Total	5,367,608,592	44.38%
388 ARO - Customer Related	428,149,437	
Customer Related Total	5,795,758,029	

**Load Related**

	\$	Percent
7. 374 Land & Land Rights	32,627,165	
8. 375 Structures & Improvements	361,104,453	
9. 376 Mains	6,100,785,625	
10. 378 Measurement & Reg Stations	155,470,912	
11. 387 Other Equipment	76,602,609	
12. Sub-Total	6,726,590,764	55.62%
388 ARO - Load Related	536,549,192	
Load Related Total	7,263,139,956	

13. <b>Total Distribution Plant</b>	13,058,897,985	100.000%
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FERC Form 2, p. 208-9

13,058,897,985 p. 209, line 109

0 <== Difference from Rounding

**2024 TCAP M&S Annual Costs By Function**  
**Development of Material & Supplies Annual Cost Factor**

	<u>Capital Structure</u>	<u>Cost</u>	<u>Weighted Cost</u>	<u>Tax Factor</u>	<u>Pre-Tax Wt. Cost</u>
1. Long Term Debt	45.60%	4.23%	1.93%	1.00000	1.93%
2. Preferred Stock	2.40%	6.00%	0.14%	1.38857	0.20%
3. Common Equity	52.00%	10.05%	5.23%	1.38857	7.26%
4.			7.300%		9.39%

sources:  
 2020 Cost of Capital Decision (D.19-12-056)

# SOUTHERN CALIFORNIA

## 2021 Economic Assumptions Update LEVELIZED ANNUAL CAPI

utility social

Auth ROR ==> 7.30%

Fed Tax Rate ==> 21.00%

FERC Account	Account Name
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Book Life	Fed Tax Life	State Tax Life	Percent Salvage	Normlzd Federal Taxes ?	Normlzd State Taxes ?	Depreciation Method			
						Federal Tax		State Tax	

### GAS GENERAL PLANT

G-391.5 Software Programs - 10yr ASL  
 G-391.55 Software Programs - 15yr ASL  
 G-391.6 Software Programs - 20yr ASL  
 G-391.3 Software Programs - 3yr ASL  
 G-391.4 Software Programs - 6yr ASL

10	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
15	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
20	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
3	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%
6	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%

# GAS

## TOTAL COST AND RECC FACTORS

State Tax Rate ==> 8.84% d Valorum Rate ==>

1.342%

LACC Components (in percent)					RECC Factors	PVCC Factors	Sum of Rev Req
Book Depr	Return on Capital	Income Taxes	Property Taxes	Total LACC			

10.00	3.51	0.76	0.68	14.95	13.91	103.58	146.07
6.67	3.61	0.74	0.74	11.75	10.57	105.06	167.96
5.00	3.74	0.74	0.79	10.26	8.96	106.26	189.85
33.33	3.76	1.08	0.47	38.65	37.98	100.87	115.42
16.67	3.52	0.84	0.60	21.63	20.74	102.14	128.56

# SOUTHERN CALIFORNIA GAS

## 2021 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

utility   social

Auth ROR ==> 7.30%

Fed Tax Rate ==> 21.00%

State Tax Rate ==> 8.84% d Valorum Rate ==>

1.342%

FERC Account	Account Name	Book Life	Fed Tax Life	State Tax Life	Percent Salvage	Normlzd Federal Taxes ?	Normlzd State Taxes ?	Depreciation Method		LACC Components (in percent)					RECC Factors	PVCC Factors	Sum of Rev Req		
								Federal Tax	State Tax	Book Depr	Return on Capital	Income Taxes	Property Taxes	Total LACC					
<b>GAS UNDERGROUND STORAGE</b>																			
		9	10	11	12	13	14	15	16	19	20	21	22	23	25	26	27		
G-352	Wells	49	15	22	-70%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.47	3.83	0.97	0.73	9.01	7.08	119.48	224.69
G-353	Lines	54	15	22	-40%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.59	4.41	1.09	0.87	8.97	6.99	120.14	282.24
G-354	Compressor Station Equipment	41	15	22	-15%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.80	4.46	1.11	0.88	9.26	7.43	119.86	276.35
G-356	Purification Equipment	39	15	22	-30%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.33	4.16	1.04	0.80	9.34	7.53	119.75	253.27
<b>GAS TRANSMISSION PLANT</b>																			
G-365.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	none	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
G-366	Structures & Improvements	47	39	45	-40%	TRUE	FALSE	sl	0%	db/sl	0%	2.98	4.68	1.38	0.83	9.86	7.79	130.22	287.81
G-367	Mains	64	15	22	-60%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.50	4.40	1.09	0.87	8.86	6.81	120.09	265.76
G-368	Compressor Station Equipment	50	15	22	-15%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.30	4.67	1.15	0.94	9.06	7.11	120.42	309.85
G-369	Measuring & Regulating Equipment	46	15	22	-50%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.26	4.04	1.01	0.78	9.10	7.20	119.75	247.73
G-371	Other Equipment	21	15	22	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.24	4.08	1.10	0.74	11.16	9.69	118.09	203.20
<b>GAS DISTRIBUTION PLANT</b>																			
G-374.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	db/sl	0%	0.00	7.30	2.10	1.34	10.74	n/a	147.12	1105.13
G-374.2	Land Rights	40	40	40	0%	FALSE	FALSE	sl	0%	db/sl	0%	2.50	5.17	1.49	0.93	10.09	8.11	130.02	313.88
G-375	Structures & Improvements	40	39	45	-10%	TRUE	FALSE	sl	0%	db/sl	0%	2.75	4.99	1.47	0.89	10.10	8.12	130.11	302.03
G-376	Mains	68	20	35	-80%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.65	4.38	1.19	0.84	9.05	6.92	122.96	231.10
G-378	Measuring & Regulating Equipment	47	20	35	-95%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.15	3.50	1.00	0.62	9.27	7.32	122.34	191.81
G-380	Services	67	20	35	-115%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.21	3.94	1.11	0.73	8.99	6.89	122.09	150.81
G-381	Meters	25	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.80	4.62	1.34	0.86	10.62	9.04	120.53	229.99
G-382	Meter & Regulator Installations	30	20	35	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.67	4.41	1.24	0.82	10.14	8.44	122.12	243.24
G-383	House Regulators	33	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.88	4.77	1.32	0.91	9.88	8.12	122.09	266.77
G-387	Other Equipment	21	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.52	4.57	1.37	0.83	11.29	9.80	119.44	211.60
<b>GAS GENERAL PLANT</b>																			
G-390	Structures & Improvements	33	39	45	-15%	TRUE	FALSE	sl	0%	db/sl	0%	3.48	4.74	1.43	0.82	10.47	8.61	129.47	269.48
G-391.1	Office Furniture & Equipment	14	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	7.14	3.81	0.97	0.73	12.65	11.45	108.66	166.78
G-391.2	Computer Equipment	5	5	6	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	20.00	3.78	1.09	0.57	25.44	24.59	103.47	125.64
G-393	Stores Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
G-394.1	Shop & Garage Equipment	29	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.45	4.59	1.30	0.86	10.20	8.52	121.60	245.35
G-394.3	Large Portable Tools	24	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.17	4.50	1.31	0.82	10.80	9.23	120.67	223.46
G-395	Laboratory Equipment	25	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.00	4.52	1.30	0.83	10.65	9.06	120.88	227.84
G-397	Communications Equipment	15	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	6.67	3.82	0.96	0.74	12.19	10.96	108.93	171.15
G-398	Miscellaneous Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.45	1.33	0.79	11.56	10.09	119.69	205.90
G-391.5	Software Programs - 10yr ASL	10	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	10.00	3.51	0.76	0.68	14.95	13.91	103.58	146.07
G-391.55	Software Programs - 15yr ASL	15	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	6.67	3.61	0.74	0.74	11.75	10.57	105.06	167.96
G-391.6	Software Programs - 20yr ASL	20	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	5.00	3.74	0.74	0.79	10.26	8.96	106.26	189.85
G-391.3	Software Programs - 3yr ASL	3	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	33.33	3.76	1.08	0.47	38.65	37.98	100.87	115.42



Capital and O&M Escalators					
Plant	2021 \$s	to	2024 \$s	Factor: Capital	0.9874
Meter	2021 \$s	to	2024 \$s	Factor: Meter	1.0453
Service	2021 \$s	to	2024 \$s	Factor: Service	1.0525
	2021 \$s	to	2024 \$s	Factor: O&M	1.0809

factor used to escalate most capital forecasts (e.g., dist capital)  
 factor used to escalate M&S\$  
 factor used to escalate transmission and storage capital costs  
 factor used to escalate 2021 FERC Form 2 data to 2024 \$

Split Factors	Labor	Nonlabor
2021	33.41%	66.59%
	\$millions	
	2021	
Total Salaries & Wages	1,065	Source: December 31, 2021 FERC Form 2, page 355, line 77
Total Gas O&M Exp.	3,186	Source: December 31, 2021 FERC Form 2, page 325, line 271

**Cost Escalators, for use in SoCalGas 2024**

	Non-L O&M	Labor O&M	Gas Plant	Meters	Plastic Services
	JGTOTALMS	JAHE49NS	JUG@PCF	JUGPDMT@f	JUGPDSVP@PCF
1997	0.546508	0.515474	0.329802	0.416693	0.488075
1998	0.556188	0.537647	0.333936	0.417759	0.496418
1999	0.568399	0.551372	0.341745	0.406569	0.506847
2000	0.588664	0.569498	0.354147	0.430014	0.514495
2001	0.605079	0.590252	0.358970	0.446000	0.526314
2002	0.616970	0.599680	0.366319	0.429482	0.544391
2003	0.636191	0.619954	0.378492	0.410832	0.556211
2004	0.660023	0.641042	0.435908	0.389624	0.574287
2005	0.689741	0.668229	0.511469	0.394953	0.603488
2006	0.716104	0.685875	0.532369	0.419464	0.629909
2007	0.741028	0.697514	0.522263	0.480209	0.651879
2008	0.778895	0.721793	0.588224	0.533921	0.690396
2009	0.776019	0.737888	0.581793	0.544578	0.722796
2010	0.796150	0.751854	0.606781	0.539889	0.740873
2011	0.825389	0.771478	0.664198	0.546284	0.765902
2012	0.843603	0.791098	0.716837	0.572287	0.791905
2013	0.856661	0.807784	0.712658	0.615981	0.806158
2014	0.870143	0.822510	0.720466	0.744399	0.826320
2015	0.872294	0.851420	0.710361	0.801415	0.844745
2016	0.877453	0.884126	0.708294	0.855766	0.867341
2017	0.894385	0.906570	0.746189	0.959673	0.888894
2018	0.919921	0.920128	0.790285	1.033740	0.904885
2019	0.934935	0.923903	0.827951	1.077434	0.930957
2020	0.933900	0.962888	0.869291	1.032674	0.958768
2021	1.000000	1.000000	1.000000	1.000000	1.000000
2022	1.038094	1.038914	1.075795	1.013781	1.022800
2023	1.038197	1.069333	1.022173	1.036951	1.035659
2024	1.045893	1.098394	0.987382	1.045280	1.052543
2025	1.060272	1.127620	0.978623	1.067205	1.079063
2026	1.079035	1.159055	0.995406	1.095455	1.100326
2027	1.099507	1.192006	1.017677	1.096034	1.125230
2028	1.121022	1.226165	1.040631	1.093279	1.150294
2029	1.143508	1.261991	1.065267	1.104631	1.174317
2030	1.166583	1.299289	1.088654	1.118575	1.196051

Values from EC study

**Transmission and Storage**

EC study allocation of A&G and Gen Plant to transmission and storage function

A&G

<u>Transmission</u>	<u>Storage</u>	<u>Total</u>	
66.4	35.8	581.5	
11.43%	6.16%		% A&G allocated to Tran/Storage

Gen Plant

<u>Transmission</u>	<u>Storage</u>	<u>Total</u>	
3.913	2.110	34.243	Gen Plant Return
24.051	12.968	210.479	Gen Plant Depreciation
1.214	0.655	10.625	Gen Plant Taxes
<u>29.178</u>	<u>15.733</u>	<u>255.347</u>	
11.43%	6.16%		% Gen Plant allocated to Tran/Storage

<b>Real Economic Carry Charge (RECC) Factors</b>		
FERC Account	Account Name	RECC Factors
G-376	Mains	8.1%
G-378	Measuring & Regulating Equipment	6.9%
G-380	Services	7.3%
G-381	Meters	6.9%
G-382	Meter Installations	9.0%
G-383	House Regulators	8.4%

Total Marginal A&G Costs \$000's	\$231,530
+ Total Payroll Taxes \$000	\$48,408
= Marginal A&G and Payroll Taxes \$000	\$279,938
/ Net O&M Costs \$000	\$321,026
<b>= Marginal A&amp;G Loading Factor as a % of O&amp;M</b>	<b>87.20%</b>

#### General Plant Loading Factor

Total General Plant \$000	\$1,894,523
* Weighted Average RECC for General Plant	14.71%
= Annualized General Plant Costs	\$278,751
/ Net Recorded O&M Costs \$000	\$321,026
<b>= General Plant Loading Factor as a % of O&amp;M</b>	<b>86.83%</b>

#### M&S Annual Costs

Function	
Customer Related \$000	\$1,807
Load Related \$000	\$2,479
<b>Total</b>	<b>\$4,286</b>

Base Year	2021
Test Year	2024