Southern California Gas Company and San Diego Gas & Electric 2027 CAP

Chapter 9 Workpapers to the Prepared Direct Testimony of Marjorie Schmidt-Pines

Cost Allocation and Long Run Marginal Cost Study (SoCalGas)

TABLE 9
UNSCALED LONG RUN MARGINAL COST REVENUES
CUSTOMER COST

\$000's

Customer Class	Customer LRMC \$/customer	Customer Count	Customer Cost \$000's
	Α	В	С
Residential	106	5,844,466	\$621,358
Core C/I	1,679	201,694	338,677
Gas A/C	10,357	0	-
Gas Engine	19,294	603	11,640
NGV	38,041	390	14,836
Total Core			\$986,510
Noncore C/I	73,510	502	36,902
Small EG	35,830	309	11,071
Large EG	207,106	57	11,805
EOR	100,038	28	2,754
Total Retail No	oncore		\$62,532
Long Beach	1,423,463	1	1,423
SDG&E	3,358,783	1	3,359
Southwest Gas	875,029	1	875
Vernon	751,991	1	752
Ecogas	166,698	1_	167
Total Wholesa	le		\$6,576
UBS	\$0	0	\$0
BTS	\$0	0_	\$0
Total Noncore		_	\$69,108
Total SoCalG	as		\$1,055,618

30Ecogas is the Wholesale – ECOGAS Mexico, S. de R.L. de C.V.

31UBS is the Unbundled Storage Program

32 BTS is Backbone Transportation Service

TABLE 10
UNSCALED LRMC COST REVENUES
DISTRIBUTION COSTS

\$000's

			\$000.8			
Customer Class	Medium Pressure Distribution LRMC \$/mcfd	Medium Pressure Distribution Peak Day (mcfd)	Medium Pressure Distribution Costs \$000's	High Pressure Distribution LRMC \$/mcfd	High Pressure Distribution Peak Month Demand (mcf)	High Pressure Distribution Costs \$000's
	Α	В	С	D	E	F
Residential	\$382.61	2,026,866	\$775,507	\$21.13	31,388,468	\$663,195
Core C/I	\$382.61	511,768	\$195,810	\$21.13	10,202,401	\$215,563
Gas A/C	\$382.61	0	\$0	\$21.13	0	\$0
Gas Engine	\$382.61	1,954	\$748	\$21.13	75,327	\$1,592
NGV	\$382.61	36,916	\$14,125	\$21.13	1,852,738	\$39,146
Total Core			\$986,189		·	\$919,495
Noncore C/I	\$382.61	93,784	\$35,883	\$21.13	6,599,410	\$139,436
Small EG	\$382.61	19,378	\$7,414	\$21.13	814,166	\$17,202
Large EG	\$382.61	10,129	\$3,875	\$21.13	1,535,767	\$32,449
EOR	\$382.61	31	\$12	\$21.13	629,074	\$13,291
Total Retail No	oncore		\$47,185			\$202,379
Long Beach	\$382.61	0	\$0	\$21.13	0	\$0
SDG&E	\$382.61	0	\$0	\$21.13	0	\$0
Southwest Gas	\$382.61	0	\$0	\$21.13	0	\$0
Vernon	\$382.61	0	\$0	\$21.13	0	\$0
Ecogas	\$382.61	0	\$0	\$21.13	0	\$0
Total Wholesa	le		\$0			\$0
UBS	\$382.61	0	\$0	\$21.13	0	\$0
BTS	\$0.00	0	\$0	\$0.00	0	\$0
Total Noncore	1		\$47,185			\$202,379
Total SoCalG	as		\$1,033,374			\$1,121,874

TABLE 11
LRMC COST SCALED REVENUES
SCALED CUSTOMER & DISTRIBUTION COSTS
\$000's

Total SoCalG	\$1,055,618	\$1,033,374	\$1,121,874	\$3,210,866	84%	\$2,697,759
Total Noncore	\$69,108	\$47,185	\$202,379	\$318,671	84%	\$267,747
BTS	\$0	\$0	\$0	\$0	84%	\$0
UBS	\$0	\$0	\$0	\$0	84%	\$0
Total Wholesa	\$6,576	\$0	\$0	\$6,576	84%	\$5,525
Ecogas	\$167	\$0	\$0	\$167	84%	\$140
Vernon	\$752	\$0	\$0	\$752	84%	\$632
Southwest Gas	\$875	\$0	\$0	\$875	84%	\$735
SDG&E	\$3,359	\$0	\$0	\$3,359	84%	\$2,822
Long Beach	\$1,423	\$0	\$0	\$1,423	84%	\$1,196
Total Retail No	\$62,532	\$47,185	\$202,379	\$312,095	84%	\$262,221
EOR	\$2,754	\$12	\$13,291	\$16,057	84%	\$13,491
EG Transmisso	\$7,543			\$7,543	84%	\$6,338
Large EG	\$4,763	\$3,875	\$32,449	\$41,088	84%	\$34,522
Small EG	\$10,570	\$7,414	\$17,202	\$35,186	84%	\$29,563
Noncore C/I	\$36,902	\$35,883	\$139,436	\$212,222	84%	\$178,308
Total Core	\$986,510	\$986,189	\$919,495	\$2,892,195	84%	\$2,430,012
NGV	\$14,836	\$14,125	\$39,146	\$68,106	84%	\$57,223
Gas Engine	\$11,640	\$748	\$1,592	\$13,979	84%	\$11,745
Gas A/C	\$0	\$0	\$0	\$0	84%	\$0
Core C/I	\$338,677	\$195,810	\$215,563	\$750,049	84%	\$630,189
Residential	\$621,358	\$775,507	\$663,195	\$2,060,060	84%	\$1,730,856
Customer Class	A Customer Cost	B	C	D=A+B+C	Scalar E	F=D*E
	Customer Cost	Medium Pressure Distribution	High Pressure	Unscaled LRMC Revenues	0 1	Scaled LRMC Revenues

Calculation of Scalar:

Scalar = [Base Margin - Transmision - Storage -Uncollectibles-NGV Compression Adder] / [Unscaled Customer + Distribution]

Scalar = 2,697,759 divided by 3,210,866

TABLE 12
ALLOCATION OF BASE MARGIN \$000's

Customer Class	Scaled LRMC Revenues	Uncollect	BTS	Local Transmission	NGV Public	Storage	Allocated Base Margin
	Α	В	С	D	E	F	G
Residential	\$1,730,856	\$8,563	\$0	\$110,185	\$0	\$173,439	\$2,023,043
Core C/I	\$630,189	\$3,040	\$0	\$32,256	\$0	\$43,406	\$708,891
Gas A/C	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Gas Engine	\$11,745	\$56	\$0	\$202	\$0	\$1,085	\$13,088
NGV	\$57,223	\$332	\$0	\$5,154	\$5,629	\$5,720	\$74,057
Total Core	\$2,430,012	\$11,992	\$0	\$147,798	\$5,629	\$223,649	\$2,819,079
Noncore C/I	\$178,308	\$1,306	\$0	\$34,500	\$0	\$22,757	\$236,872
Small EG	\$29,563	\$157	\$0	\$2,057	\$0	\$1,539	\$33,316
Large EG	\$34,522	\$212	\$0	\$4,245	\$0	\$2,877	\$41,857
EG Transmission	\$6,338	\$807	\$0	\$49,157	\$0	\$29,312	\$85,614
EOR	\$13,491	\$0	\$0	\$2,208	\$0	\$1,561	\$17,261
Retail Noncore	\$262,221	\$2,482	\$0	\$92,168	\$0	\$58,047	\$414,918
Long Beach	\$1,196	\$0	\$0	\$3,229	\$0	\$1,248	\$5,672
SDG&E	\$2,822	\$0	\$0	\$31,772	\$0	\$32,583	\$67,177
Southwest Gas	\$735	\$0	\$0	\$3,819	\$0	\$1,316	\$5,870
Vernon	\$632	\$0	\$0	\$1,725	\$0	\$1,251	\$3,608
Ecogas	\$140	\$0	\$0	\$2,827	\$0	\$2,035	\$5,002
Total Wholesale	\$5,525	\$0	\$0	\$43,371	\$0	\$38,433	\$87,330
UBS	\$0	\$0	\$0	\$0	\$0	\$35,508	\$35,508
BTS			\$502,896				\$502,896
Total Noncore	\$267,747	\$2,482	\$502,896	\$135,539	\$0	\$131,988	\$1,040,652
Total SoCalGas	\$2,697,759	\$14,474	\$502,896	\$283,337	\$5,629	\$355,636	\$3,859,731
NCCI-D	\$176,753	\$1,018	\$0	\$18,079	\$0	\$11,935	\$207,785
EOR-D	\$12,444	\$0	0	\$1,592	0	\$1,126	\$15,161
EG-D T1	\$29,563	\$157	\$0	\$2,057	\$0	\$1,539	\$33,316
EG-D T2	\$34,522	\$212	\$0	\$4,245	\$0	\$2,877	\$41,857
TLS	\$14,465	\$1,095	\$0	\$109,566	\$0	\$79,004	\$204,129
Total	\$85,630	\$1,790	\$0	\$163,134	\$0	\$88,293	\$338,847

TABLE 13
COST ALLOCATION COMPARISON \$000's

Customer Class Proposed Allocation of Base Margin	Total SoCalG	\$3,859,731	100.0%	\$3,661,421	100.0%
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total of Sas, % \$ \$22,280,942 62.3% \$ \$236,872 6.1% \$ \$12,599 0.3% \$ \$1.1% \$ \$258,777 7 \$.5% \$ \$28,872,577 7 \$3.5% \$ \$4143,801 3.9% \$ \$22,702 0.6% \$ \$22,702 0.6% \$ \$22,702 0.6% \$ \$20,771 0.6% \$ \$20,771 0.6% \$ \$20,771 0.6% \$ \$20,771 0.6% \$ \$258,910 7.1% Long Beach Storal Retail Not Description Storal	I otal Noncore	\$1,040,652	27.0%	\$788,844	21.5%
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total Residential \$2,023,043 \$2,4% \$2,280,942 \$2.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3% Total Retail No \$414,918 10.7% \$55,875 0.1% Long Beach \$5,672 0.1% \$5,985 0.1%					
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total of Sas, 90 \$ \$2,879,99 % Total of Sas, 91 % Total of Margin Margin % Total of Sas, 91 % Total of Margin Margi		l ' '			
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total Of Sask Margin % 22,80,942 62.3% % 53,870 0.3% \$ \$12,599 0.3% \$ \$12,599 0.3% \$ \$12,599 0.3% \$ \$12,599 0.3% \$ \$12,599 0.3% \$ \$12,599 0.3% \$ \$12,599 0.3% \$ \$1,1% \$ \$2,872,577 78.5% \$ \$1,0% \$ \$2,872,577 78.5% \$ \$2,872,577 78.5% \$ \$2,872,577 78.5% \$ \$2,872,577 78.5%		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.370	φ/0,009	2.170
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total A B C D Residential \$2,023,043 52.4% \$2,280,942 62.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3% Total Retail No \$414,918 10.7% \$5,885 0.1% Long Beach \$5,672	•				
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total Residential \$2,023,043 52.4% \$2,280,942 62.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3% Total Retail No \$414,918 10.7% \$258,910 7.1% Long Beach \$5,672 0.1% \$5,285 0.1%		1	******		*****
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total Residential \$2,023,043 52.4% \$2,280,942 62.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3% Total Retail No \$414,918 10.7% \$258,910 7.1% Long Beach \$5,672 0.1% \$5,285 0.1%					••••
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total Residential \$2,023,043 52.4% \$2,280,942 62.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3% Total Retail No \$414,918 10.7% \$258,910 7.1%		l ' '	*****		
Customer Class Allocation of Base Margin % Total Current Allocation of Base Margin % Total Residential \$2,023,043 52.4% \$2,280,942 62.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3% Total Retail No \$414,918 10.7% \$258,910 7.1%	-		******	, , , , , ,	*****
Customer Class Allocation of Base Margin % Total Graph Current Allocation of Base Margin % Total Graph A B C D Residential \$2,023,043 52.4% \$2,280,942 62.3% Core C/I \$708,891 18.4% \$538,916 14.7% Gas A/C \$0 0.0% \$61 0.0% Gas Engine \$13,088 0.3% \$12,599 0.3% NGV \$74,057 1.9% \$40,058 1.1% Total Core \$2,819,079 73.0% \$2,872,577 78.5% Noncore C/I \$236,872 6.1% \$143,801 3.9% Small EG \$33,316 0.9% \$22,702 0.6% Large EG \$41,857 1.1% \$20,771 0.6% EG Transmissio \$85,614 2.2% \$61,354 1.7% EOR \$17,261 0.4% \$10,281 0.3%	Long Reach	\$5.672	0.1%	\$5.285	0.1%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Total Retail No	\$414,918	10.7%	\$258,910	7.1%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	EOR	\$17,261	0.4%	\$10,281	0.3%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	EG Transmissio	\$85,614	2.2%	\$61,354	1.7%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Large EG	\$41,857	1.1%	\$20,771	0.6%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Small EG	\$33,316	0.9%	\$22,702	0.6%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Noncore C/I	\$236,872	6.1%	\$143,801	3.9%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Total Core	\$2,819,079	73.0%	\$2,872,577	78.5%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	NGV	\$74,057	1.9%	\$40,058	1.1%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Gas Engine	\$13,088	0.3%	\$12,599	0.3%
Customer Class Allocation of Base Margin % Total of Base Margin Current Allocation of Base Margin % Total of Base M	Gas A/C	\$0	0.0%	\$61	0.0%
Allocation of Base Customer Class Margin A B Current Allocation of Base Margin A B C D	Core C/I	\$708,891	18.4%	\$538,916	14.7%
Allocation of Base Customer Class Margin % Total Current Allocation of Base Margin % Total	Residential	\$2,023,043	52.4%	\$2,280,942	62.3%
	Customer Class	Allocation of Base Margin	70 TOTAL	of Base Margin	

SoCalGas 2027 CAP

Section 3 LRMC Studies - O&M Loader

SCG 2027 TAP LRMC O&M Loader Model

Output	Output	Source
Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	46.92%	A&G
General Plant Loading Factor as a % or O&M expenses	44.95%	Gen Plant
Customer Related Distribution M&S Costs 2024\$000/yr	\$5,190,779	M&S
Demand Related Distribution M&S Costs 2024\$000/yr	\$5,628,083	M&S
2021-27 Factor: Capital Plant	1.3292	Escalation Factors
2021-27 Factor: O&M	1.1449	Escalation Factors
2021-27 Factor: Capital Meter	1.3476	Escalation Factors
2021-27 Factor: Capital Service	1.2256	Escalation Factors
·		
Input from EC Model:		
Transmission A&G	\$87.718	EC Study
Storage A&G	\$44.809	EC Study
Total A&G	\$739.316	EC Study
Transmission General Plant Return	\$7.094	EC Study
Transmission Gen Plant Dep	\$31.547	EC Study
Transmission Gen Plant Taxes	\$1.130	EC Study
Storage General Plant Return	\$3.624	EC Study
Storage Gen Plant Dep	\$16.115	EC Study
Storage Gen Plant Taxes	\$0.577	EC Study
Total Gen Plant Return	\$59.789	EC Study
Total Gen Plant Dep	\$265.885	EC Study
Total Gen Plant Taxes	\$9.523	EC Study

18-Jul

2027 CAP A&G LOADER ANALYSIS O&M Costs Used in A&G Loader

		2024 Recorded Costs (\$)		source:
1. Total O&M			3,825,415,245	FERC Form 2 line no 271, page 325 less page 335, line !
2. Total Production Expenses (incl Purchased Gas cost)		1,531,137,040		FERC Form 2 line no 97, page 320
3. Total Transmission Expenses	1/	257,293,952		FERC Form 2 line no 201, page 323
4. Total Storage Expenses	1/	102,333,281		FERC Form 2 line no 125, page 321
5. Total A&G Expenses		802,647,735		FERC Form 2 line no 270, page 325, less page 335, line
6. Exclusions	2/	371,721,638		From Regulatory Accounting
7.	_			
8. Subtotal of Costs removed from O&M		3,065,133,646		
9. Net O&M			760,281,599	

Notes:

- 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.
 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)

Title of Account 870 Dist Op-Supervision & Engineering 874 Dist Op-Mains & Services Expenses 875 Dist Op-Meas & Reg Station Expenses General	Exclusions 14,001,512 5,325,401	LIPBA, PBA
874 Dist Op-Mains & Services Expenses		
	E 22E 404	1,403,707
875 Dist On-Mass & Reg Station Expenses General	3,323,401	66,876
073 Dist Op-Meas & reg Station Expenses General	0	0
878 Dist Op-Meter & House Regulator Expenses	0	0
879 Dist Op-Customer Installations Expenses	-1,182,642	0
880 Dist Op-Other Expenses (GRC Ex Haz Waste)	1,741,661	2,696,968
881 Dist Op-Rents	0	0
885 Dist Mnt-Supervision & Engineering	29,057	0
886 Maintenance of Structures and Improvements	0	576
887 Dist Mnt-Mains	27,091,889	5,468,307
888 Maintenance of Compressor Station Equipment	64,399	3,496,453
889 Dist Mnt-Meas & Reg Station Equipment General	0	0
892 Dist Mnt-Services	3,027,842	0
893 Dist Mnt-Meters & House Regulators	0	0
894 Dist Mnt-Other Equipment	0	0
901 Cus Acct-Supervision (GRC Ex CARE)	7,713,272	0
902 Cus Acct-Meter Reading Expenses	0	0
903 Cus Acct-Customer Records & Collections Exp	880,895	0
904 Cus Acct-Uncollectible Accounts	-203,585	0

TABLE 2
A&G and Payroll Taxes Loading Factor

SOUTHERN CALIFORNIA GAS COMPANY

DESCRIPTION		source
	(\$)	
Total Marginal A&G Costs	\$295,808,132	A&G 1 tab
2. Total Payroll Taxes	60,908,328	(SS + Fed&CA
3. Marginal A&G and Payroll Taxes	356,716,460	Row 1 + Row 2
4. Net O&M Costs	760,281,599	O&M Costs tab
5. Marginal A&G/Payroll Taxes Loading Factor	46.92%	Row 3 / Row 4
Transmission and Storage adjustment Notes: Data Source: FERC Form 2	17.93%	EC study
Fed. Unemployment Insurance Tax Social Security Tax State Unemployment Insurance Tax Total	395,567 83,560,954 1,050,813 85,007,334	FERC Form 2, p. 263a (SS + Fed&CA L FERC Form 2, p. 263a (SS + Fed&CA L FERC Form 2, p. 263a (SS + Fed&CA L

2027 CAP Phase II A&G LOADER ANALYSIS Marginal vs Non-marginal Summary

	(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8) 2024 Recorded	
		PUC	Marginal	Marginal		Non-Marginal	Non-Marginal	Total	Total Cost	
	Account Title	Account	Cost	Portion of Total		Cost	Portion of Total	Cost	Per FERC Form 2	Source
			(\$)	(%)		(\$)	(%)	(\$)	(\$)	
	1. A&G Salaries	920	\$64,822	0.01%		\$94,289,343	12.68%	\$94,354,165	94,354,165	FERC Form 2 line no 254, page 325
2	Office Supplies and Exp	921	1,007,830	0.14%		33,972,585	4.57%	34,980,414	34,980,414	FERC Form 2 line no 255, page 325
3	Admin Expenses Transferred	922	0	0.00%		(11,293,780)	-1.52%	(11,293,780)	(11,293,780)	FERC Form 2 line no 256, page 325
4	Outside Services Employed	923	0	0.00%		207,437,112	27.89%	207,437,112	207,437,112	FERC Form 2 line no 257, page 325
Ę	5. Property Insurance	924	7,469,467	1.00%		0	0.00%	7,469,467	7,469,467	FERC Form 2 line no 258, page 325
6	6. Injuries and Damages	925	76,686,443	10.31%		0	0.00%	76,686,443	76,686,443	FERC Form 2 line no 259, page 325
	7. Employee Pensions & Benefits	926	266,684,890	35.86%		0	0.00%	266,684,890	266,684,890	FERC Form 2 line no 260, page 325
	B. Regulatory Commission Expenses	928	0	0.00%		7,680,497	1.03%	7,680,497	7,680,497	FERC Form 2 line no 262, page 325
	9. Misc General Expenses	930	22,239	0.00%		2,160,806	0.29%	2,183,045	2,183,045	FERC Form 2 line no 265, page 325 les
). Rents	931	5,302,590	0.71%		16,911,219	2.27%	22,213,809	22,213,809	FERC Form 2 line no 266, page 325
	Maintenance of Gen Plant	932	35,338,263	4.75%		0	0.00%	35,338,263	35,338,263	FERC Form 2 line no 269, page 325
					_					
12	2. Total		392,576,544	52.78%	_	351,157,782	47.22%	743,734,326	743,734,325	
	Pensions and benefits on non-margin Pensions and benefits on exclusions	al A&G labor	(23,100,889) (9,060,938) 360,414,717			23,100,889 9,060,938 383,319,609	<	== The Pension & Bene	fits OH Planning Rate	for 2024 is 24.50%
	Payroll Taxes on non-marginal A&G la Payroll taxes on exclusions	abor		= Tax loader on non-marginal = Tax loader on exclusions	labor	6,364,531 2,496,381	Т	he SCG Payroll Tax OH	rate for 2024 is 6.75%	
	Color Kov. Input Data Source Data for	rom other tob.	oloulation	_	6.75% 2,496,381	<u>P&B</u> 24.50% 9,060,938	36,983,420 L	abor Exclusion	F	rom 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 2024

(1)	(2)	(3)	(4)	(5)		(6)	(7) (5) + (6)	(8)	(9)
FERC Cost Center Description	PUC Account Number	FERC Account No.	Marginal Y/N	2024 Record Costs Direc		Reassigned	Total	Marginal	Non-Marginal
				(\$)		(\$)	(\$)	(\$)	(\$)
BLDG OPER OTH THAN CLEANING SV PROCUREMENT & LOGISTICS CONSULT	920 920	920.601 920.630	Y Y	\$:	\$ 64,739 -	\$ 64,739 -	\$ 64,739 -	\$ -
REAL ESTATE BUILDING CLEANING SERVICES	920 920	920.604 920.600	Y Y		-	- 82	82	82	
5. RETURN TO WORK EXAMINATIONS 6. SUPPLIER MANAGEMENT	920 920	920.212 920.632	Ý Y		-	-	-	-	-
ACCOUNT 920 MARGINAL TOTAL			•		-	64,822	64,822	64,822	-
7. ADMINISTRATIVE & GENERAL SALARIES	920	920.000	N	68,904	646	8,206,664	77.111.310		77,111,310
NUMAN RESOURCES OPER SALARIES	920	920.200	N	10,130		2,174,250	12,304,326		12,304,326
9. REGIONAL AFFAIRS	920	920.570	N	3,821		996,970	4,818,610		4,818,610
10. END USER SUPPORT COMM	920	920.372	N	-,-	-	-	-	-	-
11. COMPUTER END USER SUPPORT	920	920.371	N		-	310	310	-	310
12. REGION MANAGER SALARIES	920	920.047	N		-	-	-	-	-
13. PUBLIC AFFAIRS ADMINISTRATION 14. OPERATE MAINFRAME COMPUTERS GEN	920 920	920.570 920.360	N		-	-	-	-	-
15. STANDARD & CODES	920	920.360	N N		-	•	-	-	-
16. INFORMATION SYS GENL SUPERVISION	920	920.301	N N	38	,834	15,953	54,787		54,787
17. INFORMATION SYS ADMIN SUPPORT	920	920.302	N	50	-	-	5 1 ,767		-
18. INFORMATION SYSTEMS	920	920.300	N		-	-			-
GOVERNMENTAL AFFAIRS SALARIES	920	920.560	N		-	-		-	-
20. PSEP - A&G SALARIES	920	920.850	N		-	-	-	-	-
21. Reassignment Only ACCOUNT 920 NON-MARGINAL TOTAL	920	920.010	N	82.895	-	11.394.148	94.289.343		94,289,343
ACCOUNT 920 NON-MARGINAL TOTAL				82,895	,190	11,394,148	94,289,343	-	94,289,343
22. BLDG OPER OTH THAN CLEANING SV	921	921.601	Υ	910	,772	(5,531)	905,241	905,241	-
23. BUILDING CLEANING SERVICES	921	921.600	Υ	101	,154	746	101,900	101,900	-
24. PROCUREMENT & LOGISTICS CONSULT	921	921.630	Y		-	-	-	-	-
25. REAL ESTATE ACCOUNT 921 MARGINAL TOTAL	921	921.604	Υ	1.012	591	(4,687)	1.007.830	1,007,830	
ACCOUNT 921 MARGINAL TOTAL				1,012	,516	(4,087)	1,007,830	1,007,830	-
27. ADMINISTRATIVE & GENERAL SALARIES	921	921.000	N	27,367		4,447,669	31,815,622		31,815,622
28. HUMAN RESOURCES OPER SALARIES	921	921.200	N		,922	(27,122)	162,800	-	162,800
29. COMPUTER END USER SUPPORT	921	921.371	N		,039	(42,390)	260,649	-	260,649
30. REGIONAL AFFAIRS 31. PUBLIC AFFAIRS ADMINISTRATION	921 921	921.571 921.563	N N	256	,901 115	(6,788)	250,112 112	-	250,112 112
32. REGION MANAGER SALARIES	921	921.047	N		154	(3)	151		151
33. STANDARD & CODES	921	921.561	N		-	- (0)	-	_	-
34. INFORMATION SYS GENL SUPERVISION	921	921.301	N	1,042	,187	445,056	1,487,243		1,487,243
35. PSEP-A&G OFFICE SUPL	921	921.850	N		(216)	5	(211)	-	(211)
36. FERC B/S ERRORS	921	921.999	N		-	(3,894)	(3,894)		(3,894)
ACCOUNT 921 NON-MARGINAL TOTAL				29,160	,055	4,812,529	33,972,585	-	33,972,585
37. ADMINISTRATIVE EXPENSES TRANSFERRED-CRED	922	922.000	N			(7,541,687)	(7,541,687)		(7,541,687)
38. HR-CAP A&G TRANS CR	922	922.200	N		-	(2,722,237)	(2,722,237)	-	(2,722,237)
39. IS GEN SUP-CAP AG CR	922	922.301	N		-	(6,421)	(6,421)		(6,421)
40. PA ADM-CAP A&G TR CR	922	922.563	N		-	(40)	(40)		(40)
41. REG AF-CAP A&G TR CR	922	922.570	N		-	(1,020,020)	(1,020,020)		(1,020,020)
42. BLD CLNG-CP AG TR CR 43. RE - CAP A&G TRN CR	922 922	922.600 922.604	N N		-	(3,374)	(3,374)		(3,374)
ACCOUNT 922 NON-MARGINAL TOTAL	922	922.004	IN			(11,293,780)	(11,293,780)	_	(11,293,780)
						(11,200,700)	(11,200,700)		(11,200,100)
44. OUTSIDE SERVICES EMPLOYED	923	923.000	N	52,089	,941	155,347,171	207,437,112	-	207,437,112
45. PSEP -OUTSIDE SERVICES	923	923.850	N	E2 000	- 044	455 247 474	207 427 440		207 427 440
ACCOUNT 923 NON-MARGINAL TOTAL				52,089	,941	155,347,171	207,437,112	-	207,437,112

(1)	(2)	(3)	(4)	(5)	(6)	(7) (5) + (6)	(8)	(9)
FERC Cost Center Description	PUC Account Number	FERC Account No.	Marginal Y/N	2024 Recorded Costs Direct	Reassigned	Total	Marginal	Non-Marginal
46. INSURANCE EXPENSE	924	924.000	Υ	6,868,010	601.458	7,469,467	7,469,467	_
ACCOUNT 924 MARGINAL TOTAL	524	324.000		6.868.010	601,458	7,469,467	7,469,467	
47. INJURIES AND DAMAGES	925	925.000	Y	(53,370,957)	54,804,193	1,433,237	1,433,237	-
48. ACCIDENT PREV & SAFE	925	925.160	Y	8,190,920	2,034,765	10,225,685	10,225,685	-
49. A&G EMERGENCY PREP 50. COLL WORKERS COMP	925 925	925.180 925.300	Y Y	4,509,261 20,738,641	1,209,279 (9,400,400)	5,718,539 11,338,240	5,718,539 11,338,240	-
51. COLL PLPD	925	925.310	Ý	61,923,319	(13,952,577)	47,970,742	47,970,742	
52. PSEP - INJUR & DAMAG	925	925.850	Ý	01,923,319	(13,532,377)	47,570,742	47,570,742	
ACCOUNT 925 MARGINAL TOTAL				41,991,183	34,695,260	76,686,443	76,686,443	-
53. EMPLOYEE PENSIONS AND BENEFITS	926	926.000	Υ	6.993.702	83.427.129	90.420.831	90.420.831	
54. TRANSPORTATION PROGRAM	926	926.239	Ý	0,993,702	03,427,129	50,420,031	50,420,031	
55. EMPLOYEE RECOGNITION PROGRAM	926	926.200	Ý	5,984,628	(4,902,625)	1,082,004	1,082,004	_
56.	926	926.207	Υ	14,416	(14,429)	(14)	(14)	-
57. DISABILITY BENEFIT EXPENSE	926	926.300	Y	247,368,993	(72,186,924)	175,182,069	175,182,069	
ACCOUNT 926 MARGINAL TOTAL				260,361,739	6,323,150	266,684,890	266,684,890	-
58. BLDG SUPPORT CANTEEN GASCO TWR	926	926.202	N		_	-	_	_
ACCOUNT 926 NON-MARGINAL TOTAL	_			-	-	-	-	-
59. INTERVENOR COMPENSATION	928	928.500	N	1,931,345		1,931,345	_	1,931,345
60. REGULATORY COMMISSION EXPENSES	928	928.000	N	5,606,732	142,419	5,749,152		5,749,152
ACCOUNT 928 NON-MARGINAL TOTAL	_			7,538,077	142,419	7,680,497	-	7,680,497
61. DIVISION STATIONERY EXPENSE	930	930.625	Υ	5,599	30	5,628	5,628	
62. DUPLICATING EQUIP DIST & TRANS	930	930.600	Ý	16.456	94	16.550	16.550	-
63. PSEP -A&G MISC EXP	930	930.850	Ý	9	51	61	61	_
ACCOUNT 930 MARGINAL TOTAL	_			22,064	175	22,239	22,239	-
64. GENERAL ADVERT EXP	930	930.100	N	1.397.044	630	1.397.673		1.397.673
65. MISCELLANEOUS GENERAL EXPENSES	930	930.200	N	(582,335)	2.737.975	2,155,641		2,155,641
66. MISC DIV OFFICE EXPENSES	930	930.046	N	5,212	(47)	5,165	-	5,165
ACCOUNT 930 NON-MARGINAL TOTAL				(577,123)	2,737,929	2,160,806	-	2,160,806
67. RENTS DISTRIB AND TRANSM REGIONS	931	931.602	Υ	6,722,339	(1.419.749)	5.302.590	5,302,590	_
ACCOUNT 931 MARGINAL TOTAL	_			6,722,339	(1,419,749)	5,302,590	5,302,590	-
68. GAS COMPANY TOWER RENTS	931	931.600	N	17.609.621	(1,124,749)	16.484.872	_	16,484,872
69. RENTS GENERAL	931	931.000	N	65.157	361.190	426,347		426,347
ACCOUNT 931 NON-MARGINAL TOTAL	_			17,674,778	(763,559)	16,911,219	-	16,911,219
70 BLDG YARD & FOUIP MAINTENANCE	935	935.600	Υ	30.201.269	353.968	30.555.236	30.555.236	
71. MAINTENANCE FURN OFFICE EQUIP	935	935.601	Ý	7.149	(144)	7,005	7.005	
72. MEAS SHOP EQUIP	935	935.675	Ý	127.880	(5,987)	121.892	121.892	
73. GARAGE/FUEL ISLAND MAINTENANCE	935	935.606	Υ	3,117,170	113,266	3,230,436	3,230,436	-
74. COMPR MTC CNG VEHICLES	935	935.605	Y	737,124	1,500	738,623	738,623	-
75. TESTRACK MAINTENANCE	935	935.680	Y		-	-	-	-
76. MAINTENANCE OF GENERAL PLANT ACCOUNT 935 MARGINAL TOTAL	935	935.000	Υ	90,350	594,720 1.057.322	685,070 35,338,263	685,070 35.338.263	<u>-</u> _
ACCOUNT 533 MAINGINAL TOTAL				34,200,941	1,007,322	,,	33,330,203	-
TOTAL A&G	_			540,039,718	203,694,608	743,734,326	392,576,544	351,157,782
				·—				

FERC Account	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
920.000 Total	\$68,904,646	\$ 8,206,664	\$77,111,310
920.010 Total	\$0	\$ 0	\$0
920.047 Total	\$0	\$ 0	\$0
920.200 Total	\$10,130,076	\$ 2,174,250	\$12,304,326
920.212 Total	\$0	\$ 0	\$0
920.300 Total	\$0	\$ 0	\$0
920.301 Total	\$38,834	\$ 15,953	\$ 54,787
920.302 Total	\$0	\$ 0	\$0
920.360 Total	\$0	\$ 0	\$0
920.371 Total	\$0	\$ 310	\$ 310
920.372 Total	\$0	\$ 0	\$0
920.372 Total	\$0	\$ 0	\$0
920.563 Total	\$0	\$ 0	\$0
920.561 Total	\$0	\$ 0	\$0
920.563 Total	\$0	\$ 0	\$0
920.570 Total	\$3,821,640	\$ 996,970	\$4,818,610
920.600 Total	\$0	\$ 82	\$82
920.601 Total	\$0	\$ 64,739	\$64,739
920.604 Total	\$0	\$ 0	\$0
920.630 Total	\$0	\$ 0	\$0
920.632 Total	\$0	\$ 0	\$0
920.850 Total	\$0	\$ 0	\$ 0
	\$ 82,895,196	\$ 11,458,970	\$ 94,354,165
921.000 Total	\$27,367,954	\$ 4,447,669	\$31,815,622
921.047 Total	\$154	-\$ 3	\$ 151
921.200 Total	\$189,922	-\$ 27,122	\$162,800
921.301 Total	\$1,042,187	\$ 445,056	\$1,487,243
921.371 Total	\$303,039	-\$ 42,390	\$260,649
921.561 Total	\$0	\$ 0	\$0
921.563 Total	\$115	-\$ 3	\$112
921.570 Total	\$256,901	-\$ 6,788	\$250,112
921.600 Total	\$101,154	\$ 746	\$101,900
921.601 Total	\$910,772	-\$ 5,531	\$905,241
921.604 Total	\$591	\$ 98	\$689
921.630 Total	\$0	\$ 0	\$0
921.850 Total	-\$216	\$ 5	(\$211)
921.999 Total	\$0	-\$ 3,894	(\$3,894)
	\$ 30,172,572	\$ 4,807,842	\$ 34,980,414

FERC Account	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
922.000 Total	\$0	-\$ 7,541,687	(\$7,541,687)
922.200 Total	\$0	-\$ 2,722,237	(\$2,722,237)
922.301 Total	\$0	-\$ 6,421	(\$6,421)
922.563 Total	\$0	-\$ 40	(\$40)
922.570 Total	\$0	-\$ 1,020,020	(\$1,020,020)
922.600 Total	\$0	-\$ 3,374	(\$3,374)
922.604 Total	\$0	\$ 0	\$0
	\$ 0	-\$ 11,293,780	-\$ 11,293,780
923.000 Total	\$52,089,941	\$ 155,347,171	\$207,437,112
923.850 Total	\$0	\$ 0	\$0
	\$ 52,089,941	\$ 155,347,171	\$ 207,437,112
924.000 Total	\$6,868,010	\$ 601,458	\$7,469,467
924.000 Total	\$0,000,010	\$ 001,436	\$1,409,401
925.000 Total	(\$53,370,957)	\$54,804,193	\$1,433,237
925.160 Total	\$8,190,920	\$2,034,765	\$10,225,685
925.180 Total	\$4,509,261	\$1,209,279	\$5,718,539
925.300 Total	\$20,738,641	(\$9,400,400)	\$11,338,240
925.310 Total	\$61,923,319	(\$13,952,577)	\$47,970,742
925.850 Total	\$0	\$0	\$0
	\$41,991,183	\$34,695,260	\$76,686,443
926.000 Total	\$6,993,702	\$83,427,129	\$90,420,831
926.200 Total	\$5,984,628	(\$4,902,625)	\$1,082,004
926.202 Total	\$0	\$0	\$0
926.207 Total	\$14,416	(\$14,429)	(\$14)
926.239 Total	\$0	\$0	\$0
926.300 Total	\$247,368,993	(\$72,186,924)	\$175,182,069
	\$260,361,739	\$6,323,150	\$266,684,890
928.000 Total	\$5,606,732	\$142,419	\$5,749,152
928.500 Total	\$1,931,345	\$0	\$1,931,345
	\$7,538,077	\$142,419	\$7,680,497
930.046 Total	\$5,212	(\$47)	\$5,165
930.100 Total	\$1,397,044	\$630	\$1,397,673
930.200 Total	(\$582,335)	\$2,737,975	\$2,155,641
930.600 Total	\$16,456	\$94	\$16,550
930.625 Total	\$5,599	\$30	\$5,628
930.850 Total	\$9	\$51	\$61
	\$841,985	\$2,738,733	\$3,580,718
931.000 Total	\$65,157	\$361,190	\$426,347
931.600 Total	\$17,609,621	(\$1,124,749)	\$16,484,872
931.602 Total	\$6,722,339	(\$1,419,749)	\$5,302,590
	\$24,397,117	(\$2,183,308)	\$22,213,809
935.000 Total	\$90,350	\$594,720	\$685,070
935.600 Total	\$30,201,269 \$7,149	\$353,968	\$30,555,236
935.601 Total		(\$144)	\$7,005
935.605 Total 935.606 Total	\$737,124 \$3,117,170	\$1,500 \$113,266	\$738,623 \$3,230,436
500.000 TOTAL	φυ, 117,170	ş113,200	φ3,23U, 43 U

FERC Account	TOTAL DIRECT	REASSIGNMENTS	TOTAL COSTS
935.675 Total	\$127,880	(\$5,987)	\$121,892
935.680 Total	\$0	\$0	\$0
	\$34,280,941	\$1,057,322	\$35,338,263
	\$541,436,761	\$203,695,238	\$745,131,999

Weighted Average RECC Calculation left

left			0 5				
	Account		Gas Plant In Service Year End 2024			Weighted	
		O Di t A t -		D	DEOO	Average	0
	<u>No.</u>	General Plant Accounts	<u>Balance (\$)</u>	<u>Percent</u>	RECC	RECC .	Source
1.	390	Structures and Improvements	251,161,397	17.31%	0.000%	0.000%	FERC Form 2 line no 112, page 209
2.	391	Office Furniture and Equipment					
3.	391.1	Office Furn & Equip-ME & FF	21,164,638	1.46%	8.518%	0.124%	
4.	391.2	Computer Equip	110,262,321	7.60%	11.404%	0.867%	
	391.25	Computer Hardware AMI	0	0.00%	11.404%	0.000%	
5.	391.3	Computer Software 2-4years	93,395,724	6.44%	38.063%	2.450%	
	391.35	Computer Software AMI		0.00%	20.737%	0.000%	
6.	391.4	Computer Software 5-8years	471,838,904	32.52%	20.737%	6.744%	
7.	391.5	Computer Software 9-12years	7,709,295	0.53%	13.872%	0.074%	
8.	391.55	Computer Software 15years	1,294,088	0.09%	10.509%	0.009%	
9.	391.6	Computer Software 20years	1,118,327	0.08%	8.884%	0.007%	
10.	392	Transportation Equipment	1,945,297	0.13%	10.911%	0.015%	FERC Form 2 line no 114, page 209
11.	393	Stores Equipment	310,753	0.02%	24.622%	0.005%	FERC Form 2 line no 115, page 209
12.	394	Tools, Shop, and Garage Equipment	165,890,148	11.43%	8.441%	0.965%	FERC Form 2 line no 116, page 209
13.	395	Laboratory Equipment	10,455,873	0.72%	9.165%	0.066%	FERC Form 2 line no 117, page 209
14.	396	Power Operated Equipment		0.00%	10.911%	0.000%	FERC Form 2 line no 118, page 209
15.	397	Communication Equipment	312,704,694	21.55%	8.994%	1.938%	FERC Form 2 line no 119, page 209
16.	398	Miscellaneous Equipment	1,602,904	0.11%	10.911%		FERC Form 2 line no 120, page 209
17.			1,450,854,364	100.00%		13.277%	

Reflects 2024 FERC Form 2 data. RECC factors updated.

Gas Plant updated to 2024 FERC Form 2 data RECC factors updated to 2024 values

General Plant Loading Factor

		2027 CAP	_	Sources
1.	Total General Plant Transmission and Storage adjustment Net Total General Plant after Storage adj.	\$3,136,448,238 17.93% \$2,574,220,338	- ck	FERC Form 2, page 209, line 121
1.	Weighted Average RECC for General Plant	13.28%		RECC tab
2.	Annualized General Plant Costs	\$341,771,103	1 x 2	
3.	Net Recorded O&M Costs	\$760,281,599		O&M Expenses tab
4.	General Plant Loading Factor	44.95%	3 / 4	
6.	Transmission and Storage adjustment	17.93%		EC study

Notes:

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

Reflects 2024 FERC Form 2 data for total General Plant.

2024 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	Chamana	#2 127 449 2 29	12.80%		FFDC form 2 n 207 line 57		
2	Storage Transmission - Total	\$3,136,448,238 \$5,865,793,846	23.93%		FERC form 2, p. 207, line 57 FERC form 2, p. 209, line 92		
3	Distribution - Total		63.27%		from Allocation of Investment tab		
	Customer Related	\$15,506,737,837	28.01%		from Allocation of Investment tab		
4 5	Load Related	\$6,865,145,128 \$8,641,592,709	28.01% 35.26%		from Allocation of Investment tab		
5 6	General Plant	\$6,641,392,709	0.00%		from Allocation of investment tab		
7	Total	\$24,508,979,921	100.00%				
,	Total	\$24,508,979,921	100.00%				
	II. Total M&S To Be Functionalized						
8	Total Material and Supplies	\$141,545,646			2024 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				3		
9	Storage	\$18,113,793	12.80%				
10	Transmission - Total	\$33,876,464	23.93%				
11	Distribution - Total	\$89,555,389	63.27%				
12	Customer Related	\$39,647,974	28.01%				
13	Load Related	\$49,907,415	35.26%				
14	General Plant	\$0	0.00%				
15	Total	\$141,545,646	100.00%				
16	IV. M&S Annual Cost factor	9.85%			from Annual Cost Factor tab, check with one correct		
	V. M&S Annual Costs						
		2024 \$		2027 \$			
17	Storage	\$1,784,209	12.80%	\$2,371,488			
18	Transmission - Total	\$3,336,832	23.93%	\$4,435,163			
19	Distribution - Total	\$8,821,206	63.27%	\$11,724,741			
20	Customer Related	\$3,905,325	28.01%	\$5,190,779	@ O&M Esclation 2021 to 2024		
21	Load Related	\$4,915,880	35.26%	\$6,533,962	1.14	1 5	\$5,628,083
22	General Plant	\$0	0.00%	\$0			
23	Total	\$13,942,246	100.00%	\$18,531,392			

1.329

Updated to FERC Form 2 data for 2024

*escalated by capital factor: 2021\$ to 2027\$ Updated to FERC Form 2 data for 2024

2027 CAP Phase M&S Annual Costs By Function Allocation of 2024 Distribution Plant Investment

Customer Related

		\$	<u>Percent</u>
1.	380 Services	4,373,523,393	
2.	381 Meters	1,067,324,517	
3.	382 Meter Installations	740,022,591	
4.	383 House Regulators	210,515,080	
5.	386 Other Property on Customer Premise	0	
6.	Sub-Total	6,391,385,581	44.27%
	388 ARO - Customer Related	473,759,547	
	Customer Related Total	6,865,145,128	

Load Related

		\$	<u>Percent</u>
7.	374 Land & Land Rights	33,526,188	
8.	375 Structures & Improvements	456,731,761	
9.	376 Mains	7,233,727,883	
10.	378 Measurement & Reg Stations	240,644,606	
11.	387 Other Equipment	80,611,142	
12.	Sub-Total	8,045,241,580	55.73%
	388 ARO - Load Related	596,351,129	
	Load Related Total	8,641,592,709	

13. **Total Distribution Plant** 15,506,737,837 100.000%

FERC Form 2, p. 208-9

15,506,737,837 p. 209, line 109

0 <== Difference from Rounding

2027 CAP M&S Annual Costs By Function Development of Material & Supplies Annual Cost Factor

		Capital <u>Structure</u>	<u>Cost</u>	Weighted <u>Cost</u>	Tax <u>Factor</u>	Pre-Tax <u>Wt. Cost</u>
1.	Long Term Debt	45.60%	4.54%	2.07%	1.00000	2.07%
2.	Preferred Stock	2.40%	6.00%	0.14%	1.38857	0.20%
3.	Common Equity	52.00%	10.50%	5.46%	1.38857	7.58%
4.				7.670%		9.85%

sources:

COC

Finance Dept.

SOUTHERN CALIFORNIA

2024 Economic Assumptions Update LEVELIZED ANNUAL CAPI

utility socal

Auth ROR ===> 7.50%

Fed Tax Rate ====>

21.00%

FERC Account	Account Name
-----------------	--------------

		State			Normlzd	Deprecia	ation Method
Book	Tax	Tax	Percent	Federal	State	Federal Tax	Ctata Tay
Life	Life	Life	Salvage	Taxes?	Taxes?	rederai rax	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

ITAL COST AND RECC FACTORS

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

1.478%

	LACC Com	ponents	(in percent)			Sum of	
Book	Return on		Property	Total	RECC Factors	PVCC Factors	Rev Rea
Depr	Capital	Taxes	Taxes	LACC			
10.00	3.71	0.81	0.67	15.19	13.87	103.47	148.05
6.67	3.82	0.79	0.73	12.01	10.51	104.88	170.84
5.00	3.96	0.80	0.77	10.54	8.88	106.01	193.63
33.33	3.96	1.15	0.46	38.90	38.06	100.86	116.14
16.67	3.71	0.90	0.59	21.86	20.74	102.08	129.82

SOUTHERN CALIFORNIA GAS

2024 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

	utility socal		uth RO		7.67%	opu			====>	21.00%			Rate ===>		d Valorum	Rate ===	•	1.303%	
			Fed	State	Ι	Normlzd	Normlzd		Denreciat	tion Meth	od		LACC Com	nonente (in nercent)				
FERC Account	Account Name	Book		Tax	Percent	Federal	State		al Tax		Tax	Book	Return on			Total	RECC Factors	PVCC Factors	Sum of Rev Req
, tooodiit		Life	Life	Life	Salvage	Taxes?	Taxes ?	reuei	aiiax	State	; I a x	Depr	Capital	Taxes	Taxes	LACC		1 401010	THOV THOU
GAS UN	IDERGROUND STORAGE	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	4.13	1.07	0.73	9.40	6.97	119.28	228.01
G-353 G-354	Lines Compressor Station Equipment	54 41	15 15	22 22	-40% -15%	TRUE TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.59 2.80	4.73 4.77	1.19 1.21	0.86 0.87	9.38 9.65	6.87 7.32	119.94 119.70	288.81 283.41
G-356	Purification Equipment	39	15	22	-30%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.33	4.45	1.14	0.79	9.72	7.43	119.56	258.93
GAS TR	ANSMISSION PLANT																		
G-365.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	none	0%	0.00	7.67	2.23	1.30	11.21	n/a	146.06	1153.21
	Land Rights	#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	5.00	1.50	0.82	10.30	7.67	130.04	294.92
G-367 G-368	Mains Compressor Station Equipment	64 50	15 15	22 22	-60% -15%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.50 2.30	4.72 4.99	1.19 1.25	0.86 0.92	9.28 9.46	6.69 6.99	119.90 120.21	271.07 318.28
G-369	Measuring & Regulating Equipment	46	15	22	-50%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.26	4.34	1.11	0.92	9.49	7.09	119.54	252.59
G-371	Other Equipment	21	15	22	-10%	TRUE	FALSE	db/si	150%	db/sl	200%	5.24	4.34	1.18	0.77	11.49	9.62	118.07	207.38
	STRIBUTION PLANT	0	0	0	0%	FALSE	FALSE	none	0%	db/sl	0%	0.00	7.67	2.23	1.30	11.21	n/a	146.06	1153.21
	Land Rights	40	40	40	0%	FALSE	FALSE	sl	0%	db/sl	0%	2.50	5.50	1.60	0.92	10.51	8.01	129.92	323.23
G-375	Structures & Improvements	40	39	45	-10%	TRUE	FALSE	sl	0%	db/sl	0%	2.75	5.31	1.58	0.88	10.52	8.01	129.98	310.59
G-376 G-378	Mains Measuring & Regulating Equipment	68 47	20 20	35 35	-80% -95%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.65 4.15	4.71 3.80	1.30 1.10	0.83 0.63	9.49 9.67	6.80 7.21	122.83 122.15	234.45 193.11
G-380	Services	67	20	35	-115%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.21	4.27	1.21	0.74	9.43	6.77	122.02	149.84
G-381	Meters	25	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.80	4.91	1.44	0.84	10.99	8.97	120.62	235.78
G-382	Meter & Regulator Installations	30	20	35	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.67	4.70	1.33	0.81	10.51	8.35	122.07	249.14
G-383	House Regulators	33	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.88	5.07	1.42	0.89	10.26	8.04	122.07	274.07
G-387	Other Equipment	21	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.52	4.84	1.46	0.81	11.64	9.75	119.59	216.63
GAS GE	ENERAL PLANT																		
G-390	Structures & Improvements	33	39	45	-15%	TRUE	FALSE	sl	0%	db/sl	0%	3.48	5.05	1.53	0.81	10.88	8.52	129.38	276.54
G-391.1	Office Furniture & Equipment	14	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	7.14	4.03	1.04	0.71	12.93	11.40	108.64	169.65
G-391.2	Computer Equipment	5	5	6 35	0% 0%	TRUE	FALSE FALSE	db/sl	200% 150%	db/sl	200%	20.00	3.98	1.16	0.56 0.77	25.70	24.62 10.04	103.50	126.80
G-393 G-394.1	Stores Equipment Shop & Garage Equipment	20 29	20 20	35 35	0% 0%	TRUE	FALSE	db/sl db/sl	150%	db/sl db/sl	200% 200%	5.00 3.45	4.71 4.88	1.42 1.40	0.77	11.91 10.57	8.44	119.81 121.61	210.55 251.63
G-394.3	Large Portable Tools	24	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.17	4.78	1.40	0.81	11.16	9.16	120.73	228.83
G-395	Laboratory Equipment	25	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.00	4.80	1.40	0.82	11.01	8.99	120.93	233.39
G-397	Communications Equipment	15	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	6.67	4.05	1.03	0.73	12.47	10.91	108.90	174.21
G-398	Miscellaneous Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.71	1.42	0.77	11.91	10.04	119.81	210.55
G-391.5 G-391.55	Software Programs - 10yr ASL Software Programs - 15yr ASL	10 15	3 3	3 3	0% 0%	TRUE	FALSE FALSE	sl sl	0% 0%	db/sl db/sl	0% 0%	10.00	3.71 3.82	0.81 0.79	0.67 0.73	15.19 12.01	13.87 10.51	103.47 104.88	148.05 170.84
	Software Programs - 20yr ASL	20	3	3	0%	TRUE	FALSE	sl	0%	db/si	0%	5.00	3.96	0.79	0.73	10.54	8.88	106.01	193.63
	· ·	'						•	,		'					'	•		'

Capital and	I O&M Escalators				
Plant	2021 \$s	to	2027 \$s	Factor: Capital	1.3292
Meter	2021 \$s	to	2027 \$s	Factor: Meter	1.3476
Service	2021 \$s	to	2027 \$s	Factor: Service	1.2256
	2021 \$s	to	2027 \$s	Factor: O&M	1.1449

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 2024 FERC Form 2 data to 2027 \$

Culit Footour	Labor	Nonlabor	
Split Factors 2024	32.20%	67.80%	
		\$millions	
		<u>2024</u>	
Total Salaries & Wages		1,232	Source: December 31, 2024 FERC Form 2, page 355, line 77
Total Gas O&M Exp.		3,825	Source: December 31, 2024 FERC Form 2, page 325, line 271

Cost Escalators, for use in SoCalGas 2027

	Non-L O&M=	Labor O&M= Ga	s Plant=	Meters	Plastic Services
	JGTOTALMS	CEU4422000008	JUG@PCF	JUGPDMT@PCF	JUGPDSVP@PCF
1997	0.590411	0.514759	0.327182	0.403926	0.483804
1998	0.511544	0.473337	0.243563	0.307988	0.432745
1999	0.518350	0.485402	0.249258	0.299739	0.441836
2000	0.534539	0.501359	0.258304	0.317024	0.448503
2001	0.544367	0.519667	0.261822	0.328809	0.458806
2002	0.552549	0.527911	0.267182	0.316631	0.474565
2003	0.570517	0.545760	0.276060	0.302881	0.484868
2004	0.589623	0.564343	0.317938	0.287246	0.500626
2005	0.616299	0.587811	0.373050	0.291175	0.526082
2006	0.637803	0.603823	0.388293	0.309245	0.549113
2007	0.656293	0.614180	0.380923	0.354029	0.568265
2008	0.685789	0.635297	0.429032	0.393628	0.601842
2009	0.678346	0.649583	0.424342	0.401485	0.630086
2010	0.689079	0.661905	0.442567	0.398028	0.645844
2011	0.710755	0.679202	0.484445	0.402742	0.667663
2012	0.721680	0.696445	0.522839	0.421912	0.690331
2013	0.732400	0.711135	0.519790	0.454126	0.702756
2014	0.744041	0.724099	0.525486	0.548801	0.720332
2015	0.745268	0.749550	0.518115	0.590835	0.736393
2016	0.749827	0.778343	0.516608	0.630905	0.756091
2017	0.765038	0.798101	0.544247	0.707509	0.774880
2018	0.786638	0.810037	0.576409	0.762114	0.788820
2019	0.801292	0.813361	0.594196	0.809958	0.809806
2020	0.799693	0.847607	0.631327	0.764174	0.828149
2021	1.000000	1.000000	1.000000	1.000000	1.000000
2022	1.106388	1.056098	1.162679	1.129649	1.052378
2023	1.140192	1.107385	1.345070	1.219104	1.091673
2024	1.166894	1.134423	1.360154	1.314851	1.137101
2025	1.186792	1.172207	1.323136	1.352589	1.169641
2026	1.207422	1.208936	1.318981	1.362759	1.204351
2027	1.226343	1.247625	1.329154	1.347626	1.225555
2028	1.245053	1.283604	1.342257	1.349034	1.236039
2029	1.270494	1.321237	1.362937	1.369787	1.244753
2030	1.297063	1.359541	1.384987	1.387439	1.256813

Values from EC study

Transmissio	n and Storage		
EC study allo	cation of A&G and	Gen Plant to trans	smission and storage function
	Transmission	<u>Storage</u>	<u>Total</u>
•	87.7	44.8	739.3
	11.86%	6.06%	% A&G allocated to Tran/Storage
Gen Plant			
	Transmission	<u>Storage</u>	<u>Total</u>
•	7.094	3.624	59.789 Gen Plant Return
	31.547	16.115	265.885 Gen Plant Depreciation
	1.130	0.577	9.523 Gen Plant Taxes
	39.770	20.316	335.196
	11.86%	6.06%	% Gen Plant allocated to Tran/Storage

F	Real Economic Carry Charge (RECC) Factors										
FERC	Account	RECC									
Account	Name	Factors									
G-376	Mains	8.0%									
G-378	Measuring & Regulating Equipment	8.0%									
G-380	Services	6.8%									
G-381	Meters	7.2%									
G-382	Meter Installations	6.8%									
G-383	House Regulators	9.0%									

TABLE 6 A&G Loading Factor

Total Marginal A&G Costs \$000's	\$295,808
+ Total Payroll Taxes \$000	\$60,908
= Marginal A&G and Payroll Taxes \$000	\$356,716
/ Net O&M Costs \$000	\$760,282
= Marginal A&G Loading Factor as a % of O&M	46.92%

TABLE 7
General Plant Loading Factor

= General Plant Loading Factor as a % of O&M	44.95%
/ Net Recorded O&M Costs \$000	\$760,282
Total General Plant \$000 * Weighted Average RECC for General Plant = Annualized General Plant Costs	\$2,574,220 <u>13.28%</u> \$341,771

TABLE 8
M&S Annual Costs

Function	
Customer Related \$000	\$5,191
Load Related \$000	\$5,628
Total	\$10,819

Base Year 2024 Test Year 2027

SOUTHERN CALIFORNIA GAS COMPANY 2027 CAP

Section 1
Long Run Marginal Customer Cost Model

Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

SCG 2027 CAP LRMC Customer Cost/Rental Method RD Format

Со	rrected		Residential	CCI	G-AC	G-GEN	NGV	Total Core
1 2 3	Marginal Customer Unit Cost @ various LRMC Allocation Methods Customer Cust \$/Cust/Year Rental Method Customer Cost \$/Cust/Year NCO Method Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$106.32 \$108.87 \$253.57	\$1,679.16 \$694.24 \$987.71		\$19,294.39 \$6,959.46 \$11,656.87	\$38,040.62 \$30,920.04 \$33,379.84	
1 2 3	Input from O&M Loader Model: Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses	46.92%	SCG LRMC O&N	M Loaders				
4	General Plant Loading Factor as a % or O&M expenses	44.95%	SCG LRMC O&N	Ո Loaders				
5 6	Annualized Distribution Customer Related Costs \$000/yr	\$5,190,779	SCG LRMC O&N	M Loaders				
7	2021-27 Factor: Capital General Plant	1.3292	SCG LRMC O&N	M Loaders				
8	2021-27 Factor: O&M	1.1449	SCG LRMC O&M	M Loaders				

SCG 2027 CAP LRMC Customer Cost/Rental Method

RD Format

						Total Retail			South West	
Co	rrected	NCCI	EG Tier 1	EG Tier 2	EOR	NonCore	Long Beach	SDG&E	Gas	Vernon
	Marginal Customer Unit Cost @ various LRMC Allocation Methods									
1	Customer Cust \$/Cust/Year Rental Method	\$73,509.72	\$35,829.76	\$207,105.74	\$100,038.45		\$1,423,463.27	\$3,358,783.18	\$875,029.00	\$751,991.38
2	Customer Cost \$/Cust/Year NCO Method	\$20,102.93	\$22,217.63	\$28,327.74	\$26,207.01		\$183,864.62	\$172,611.25	\$227,861.02	\$132,978.03
3	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost	\$30,472.60	\$26,033.80	\$60,029.42	\$36,788.29		\$850,573.39	\$1,886,269.75	\$575,935.43	\$465,909.68

Input from O&M Loader Model:

- Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- General Plant Loading Factor as a % or O&M expenses
- Annualized Distribution Customer Related Costs \$000/yr
- 7 2021-27 Factor: Capital General Plant
- 3 2021-27 Factor: O&M

File = SCG 2027CAP LRMC Customer Costs

SCG 2027 CAP

LRMC Customer Cost/Rental Method

RD Format

		Total Whole				SYSTEM		
(Corrected	sale	Ecogas	UBS	Total Noncore	TOTAL	Sources	
_	Marginal Customer Unit Cost @ various LRMC Allocation Methods							•
	1 Customer Cust \$/Cust/Year Rental Method		\$166,697.98	\$0.00			Cust MC	
2	2 Customer Cost \$/Cust/Year NCO Method		\$75,592.79	\$0.00			Cust MC	
;	Customer Cost \$/Cust/Year NCO Method w/Replacement Cost		\$124,593.03	\$0.00	\$4,102,883.37		Cust MC	

Input from O&M Loader Model:

- 3 Marginal A&G/Payroll Taxes Loading Factor as a % of O&M expenses
- General Plant Loading Factor as a % or O&M expenses
- 5 Annualized Distribution Customer Related Costs \$000/yr
- 7 2021-27 Factor: Capital General Plant
- 8 2021-27 Factor: O&M

SCG 2027 CAP LRMC Customer Cost/Rental Method Marginal Unit Costs

Marginal Unit Costs	Core												Core		Noncore Reta	i			
S10	Residential Single	Multi	Master Meter		Residential	Non-Residentia Commercial/Inc						Non-Resident	ial I Natural Gas I	Gas	G-30 - Noncor	n C81		Small EG	Large EG
	Single	Multi	Small	Large	Residential	Commerciavino	iusulai					- "	ivaturai Gas	Gas	G-30 - NOTICO	e Cai		Siliali EG	Large EG
	Family		(up to	(100,001 therms		Very Small -	Small -	Medium -	Large - 50,001	Very Large -									
	(Detached homes)	Family	100,000 therms/year)	per year and greater)	Total or Avg.	up to 300 therms/year	301 to 3,000 therms/year	3,001 to 50,000 therms/year	to 250,000 therms/year	Over 250,000 therms/year	Average	Conditioning	Vehicle	Engine	Dietribution	Transmission	Total	< 3million	> 3million
2024 Number of Customers	3,861,103	1,807,189	120,098	55	5,788,445	86,340	64,026	47,978	2,154	317	200,815	4	368	571	490	17	507	326	41
Marginal Investment: 2027 \$/Customer																			
Meter & House Reg	\$685.42	\$575.19	\$2,211.86	\$30,341.13	\$682.95	\$953.00	\$1,571.26	\$3,129.74	\$10,747.61	\$15,835.64	\$1,798.73		\$116,295.52	\$4,354.07	\$180,093.35		\$187,034.00	\$133,929.38	
Service Lines Exclusive Use Facilities	(\$685.42)	(\$575.19)	\$15,120.25 \$0.00	\$121,051.32 \$0.00	(\$321.91)	\$10,820.98 \$0.00	\$11,147.44 \$0.00	\$16,441.93 \$0.00	\$66,914.89 \$0.00	\$912,987.93 \$0.00	\$14,293.81 \$0.00	\$101,960.87 \$0.00	\$113,577.68 \$0.00	\$264,715.83 \$0.00	\$494,215.02 \$36,305,59	########## \$147,520.52	\$528,076.85 \$40,034,69	\$245,324.16 \$0.00	\$600,915.27 \$437,536,14
Total	\$0.00 \$0.00	\$0.00 \$0.00	\$17,332.11	\$151,392.44	\$0.00 \$0.00	\$11,773.98	\$12,718.70	\$19,571.67	\$77,662.50	\$928,823.58	\$16,092.55	\$108,815.91		\$269,069.90	\$710,613.95			\$379,253.54	\$2,219,865.48
Weighted RECC factors used to annualize SRM capital costs																			
Meter & House Reg	8.57%	8.57%	8.48%	8.40%	8.58%	8.54%	8.54%	8.49%	8.47%	8.48%	8.68%	8.46%	8.37%	8.45%	8.37%	8.37%	8.37%	8.37%	8.37%
Service Lines	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%	6.77%
Exclusive Use															8.97%	8.97%	8.97%	8.97%	8.97%
Annualized Marginal Investment: \$/Cust. Meter & House Reg	\$58.74	\$49.31	\$187.67	\$2.548.17	\$58.61	\$81.34	\$134.11	\$265.61	\$909.85	\$1 342 75	\$156.07	\$579.70	\$9,738.35	\$367.81	\$15,069.40	\$32,409.29	\$15,658.93	\$11,208.00	\$98 867 71
Service Lines	(\$46.38)	(\$38.92)	\$1,023.09	\$8,190.74	(\$21.78)	\$732.18	\$754.27	\$1,112.52	\$4,527.69	\$61,775.84	\$967.17	\$6,899.02	\$7,685.05	\$17,911.57	\$33,440.26	\$101,772.11	\$35,731.46	\$16,599.46	\$40,659.96
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	\$3,256.89	\$13,233.72	\$3,591.42	\$0.00	\$39,250.34
Total Annualized Marginal Investment: 2027 \$/Cust.	\$12.36	\$10.39	\$1,210.76	\$10,738.91	\$0.00	\$813.52	\$888.38	\$1,378.12	\$5,437.54	\$63,118.59	\$1,123.24	\$7,478.72	\$17,423.40	\$18,279.37	\$51,766.55	\$147,415.12	\$54,981.81	\$27,807.46	\$178,778.01
O&M: \$/Customer			60.650.15	04	*400			040.000.00		****	***		600.00	0407.00		***	****	000.01	***
Customer Services O&M Cost 2021\$'s \$000/year 2021 Number of Customers	\$85,490.66 3.861.103	\$40,013.90 1.807.189	\$2,659.15 120.098	\$1.22 55	\$128,164.93 5.788.445	\$4,251.79 86.340	\$4,781.70 64.026	\$12,337.68 47.978	\$1,168.73 2.154	\$249.07 317	\$22,788.97 200.815	\$0.85 4	\$83.92	\$127.86 571	\$0.00 490	\$0.00 17	\$328.81 507	\$68.64 326	\$8.63 41
Customer Services O&M \$/Customer 2021\$	\$22.14	\$22.14	\$22.14	\$22.14	\$22.14	\$49.24	\$74.68	\$257.15	\$542.59	\$785.70	\$113.48	\$213.30	\$228.05	\$223.92	\$0.00	\$0.00	\$648.54	\$210.55	\$210.55
escalator 2021\$'s to 2027\$'s	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449
Customer Services O&M \$/Customer 2027\$	\$25.35	\$25.35	\$25.35	\$25.35	\$25.35	\$56.38	\$85.50	\$294.41	\$621.19	\$899.53	\$129.92	\$244.20	\$261.09	\$256.36	\$742.50	\$742.50	\$742.50	\$241.06	\$241.06
Customer Accounts O&M 2021\$'s \$000/yr	\$53,575.58	\$25,076.05	\$1,666.45	\$0.76	\$80,318.84	\$1,111.27	\$687.44	\$5,977.49	\$163.40	\$117.62	\$8,057.21	\$4.32	\$284.92	\$48.52	\$0.00	\$0.00	\$897.83	\$568.66	\$71.52
2024 Number of Customers	3,861,103	1,807,189	120,098	55	5,788,445	86,340	64,026	47,978	2,154	317	200,815	4	368	571	490	17	507	326	41
Customer Services O&M \$/Customer 2021\$ escalator 2021\$'s to 2027\$'s	\$13.88 1 1449	\$13.88 1 1449	\$13.88 1 1449	\$13.88 1 1449	\$13.88 1 1449	\$12.87 1.1449	\$10.74 1.1449	\$124.59 1.1449	\$75.86 1 1449	\$371.03 1 1449	\$40.12 1.1449	\$1,079.28 1 1449	\$774.24 1 1449	\$84.97 1.1449	\$0.00 1.1449	\$0.00 1 1449	\$1,770.87 1 1449	\$1,744.37 1 1449	\$1,744.37 1 1449
Customer Accounts O&M \$/Customer 2027\$	\$15.89	\$15.89	\$15.89	\$15.89	\$15.89	\$14.74	\$12.29	\$142.64	\$86.85	\$424.79	\$45.94	\$1,235.64	\$886.41	\$97.28	\$2,027.43	\$2,027.43	\$2,027.43	\$1,997.09	\$1,997.09
Meter & House Reg O&M Total Cost 2024 Number of Customers	\$5,590.50 3,861,103	\$2,195.82 1,807,189	\$561.15 120,098	\$3.53 55	\$8,351.00 5,788,445	\$2.96 86,340	\$3.62 64,026	\$5.40 47,978	\$0.83 2,154	\$0.18 317	\$13.00 200,815	\$0.00	\$0.00 368	\$0.00 571	490	17	\$62.00 507	\$513.00 326	\$61.00 41
Customer Services O&M \$/Customer 2021\$	\$1.45	\$1.22	\$4.67	\$64.09	\$1.44	\$0.03	\$0.06	\$0.11	\$0.39	\$0.57	\$0.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$122.29	\$1,573.62	\$1,487.80
escalator 2021\$'s to 2027\$'s	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449
Meter & House Reg O&M \$/Customer 2027\$	\$1.66	\$1.39	\$5.35	\$73.38	\$1.65	\$0.04	\$0.06	\$0.13	\$0.44	\$0.65	\$0.07	\$0.00	\$0.00	\$0.00	\$140.00	\$140.00	\$140.00	\$1,801.60	\$1,703.36
Total Service																			
Line Footage	233,579,752	58,907,774	11,635,093	13,796	304,136,415	12,737,629	6,973,402	6,630,225	564,279	115,761	27,021,296	250	62,904	627,475	104,737	16,542	121,280	46,832	16,273
Percent of																			
Total Footage Allocated St. O&M Costs \$000	70.36% \$31.878	17.74% \$8.040	3.50%	0.00%	91.61% \$41.508	3.84% \$1.738	2.10% \$952	2.00% \$905	0.17% \$77	0.03%	8.14% \$3.688	0.00%	0.02%	0.19%	0.03% \$14	0.00%	0.04% \$17	0.01%	0.00%
Allocated SL O&M Costs \$000 escalator 2021\$'s to 2027\$'s	\$31,878 1.1449	\$8,040 1 1449	\$1,588 1 1449	\$2 1.1449	\$41,508 1 1449	\$1,738 1 1449	\$952 1 1449	\$905 1 1449	\$// 1 1449	\$16 1 1449	\$3,688 1 1449	\$0 1.1449	\$9 1 1449	\$86 1 1449	1 1449	\$2 1 1449	\$17 1 1449	\$6 1 1449	\$2 1 1449
Allocated SL O&M Costs 2027\$'s	\$36,497	\$9,204	\$1,818	\$2	\$47,521	\$1,990	\$1,090	\$1,036	\$88	\$18	\$4,222	\$0	\$10	\$98	\$16	\$3	\$19	\$7	\$3
2024 Number of Customers	3,861,103	1,807,189	120,098	55	5,788,445	86,340	64,026	47,978	2,154	317	200,815	4	368	571	490	17	507	326	41
Service Lines O&M \$/Customer 2027\$	\$9.45	\$5.09	\$15.14	\$39.19	\$8.21	\$23.05	\$17.02	\$21.59	\$40.93	\$57.06	\$21.02	\$9.76	\$26.71	\$171.70	\$33.40	\$152.04	\$37.38	\$22.45	\$62.02
Customer Service & Information Cost (CSI) Costs Accounts (FERC		10):								317		Ι.	368				507		
2024 Number of Customers Customer Services & Information O&M \$/Customer 2021\$	3,861,103 \$3,43	1,807,189 \$3.43	120,098 \$3.43	55 \$3.43	5,788,445 \$3.43	86,340 \$9.63	64,026 \$9.63	47,978 \$9.63	2,154 \$5,670.73	\$5.670.73	200,815 \$79.29	\$0.00	\$8,294,95	571 \$0.00	490 \$0.00	17 \$0.00	\$5,801.69	326 \$78.55	41 \$9,309.42
escalator 2021\$'s to 2027\$'s	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449	1.1449
Customer Accounts O&M \$/Customer 2027\$	\$3.93	\$3.93	\$3.93	\$3.93	\$3.93	\$11.02	\$11.02	\$11.02	\$6,492.29	\$6,492.29	\$90.77	\$0.00	\$9,496.70	\$0.00	\$0.00	\$0.00	\$6,642.23	\$89.93	\$10,658.15
Total Direct O&M \$/customer/yr	\$56.27	\$51.65	\$65.65	\$157.74	\$55.03	\$105.23	\$125.90	\$469.79	\$7,241.70	\$7,874.31	\$287.73	\$1 489 59	\$10,670.91	\$525.35	\$2,943.33	\$3,061.97	\$9,589.54	\$4,152.12	\$14,661.67
•	100.27	401.00	400.00	¥101.114	\$ 00.00	Ţ.00.20	ų.20.03		<i>\$1,</i> 2-70	¥1,01-1.01	V 201.13	7.,-00.00	- 10,010.01	VOLU.00	V2,040.00	40,001.01	\$0,000.04	V-1, 1-02.12	\$ 1-1,001.01
O&M Loaders: \$/Customer Administrative & General as % of O&M	46 92%	46 92%	46.92%	46 92%	46 92%	46.92%	46.92%	46.92%	46.92%	46 92%	46 92%	46 92%	46 92%	46 92%	46.92%	46 92%	46.92%	46 92%	46.92%
Administrative & General \$/customer/yr 2027\$'s	\$26.40	\$24.23	\$30.80	\$74.01	\$25.82	\$49.37	\$59.07	\$220.42	\$3,397.73	\$3,694.55	\$135.00	\$698.90	\$5,006.68	\$246.49	\$1,380.98	\$1,436.65	\$4,499.32	\$1,948.13	\$6,879.11
•												1							
General Plant as % of O&M	44.95% \$25.30	44.95% \$23.22	44.95% \$29.51	44.95%	44.95% \$24.74	44.95% \$47.30	44.95% \$56.60	44.95%	44.95% \$3,255.38	44.95% \$3,539.76	44.95% \$129.34	44.95% \$669.62	44.95%	44.95% \$236.16	44.95%	44.95% \$1,376.46	44.95%	44.95% \$1,866.51	44.95%
General Plant \$/customer/yr 2027\$'s	\$25.30	\$23.22	\$29.51	\$70.91	\$24.74	\$47.30	\$50.00	\$211.19	\$3,200.38	\$3,539.76	\$129.34	\$009.02	\$4,796.92	\$230.10	\$1,323.12	\$1,370.40	\$4,310.81	\$1,800.51	\$6,590.89
Materials & Supplies Loader:		***					****		********				***						*** *** *
Per Customer Direct+A&G+GP O&M \$/customer/yr 2024 Number of Customers	\$107.98 3.861.103	\$99.10 1.807.189	\$125.97 120.098	\$302.66 55	\$105.58 5.788.445	\$201.90 86.340	\$241.57 64.026	\$901.40 47.978	\$13,894.82 2 154	\$15,108.62 317	\$552.07 200.815	\$2,858.12	\$20,474.51 368	\$1,008.00 571	\$5,647.43 490	\$5,875.08 17	\$18,399.66 507	\$7,966.77 326	\$28,131.67 41
2024 Number of Customers Total Direct+A&G+GP O&M \$000/vr	3,861,103 \$416,905	1,807,189 \$179.092	120,098 \$15,128	55 \$17	5,788,445 \$611,142	\$6,340 \$17.432	\$15,467	47,978 \$43,247	2,154 \$29.929	317 \$4,789	200,815 \$110.865	S11	\$7.535	\$576	\$2.767	17 \$100	\$9.329	\$2.597	41 \$1.153
Percent of Total	55.98%	24.05%	2.03%	0.00%	82.06%	2.34%	2.08%	5.81%	4.02%	0.64%	14.89%	0.00%	1.01%	0.08%	0.37%	0.01%	1.25%	0.35%	0.15%
Allocated M&S \$5,190,778.76	\$2,905,755 3.861.103	\$1,248,242 1.807,189	\$105,442 120.098	\$116 55	\$4,259,556 5,788,445	\$121,499 86.340	\$107,799 64.026	\$301,425 47,978	\$208,603 2.154	\$33,382 317	\$772,708 200.815	\$80	\$52,515 368	\$4,012 571	\$19,287 490	\$696 17	\$65,019 507	\$18,102 326	\$8,039 41
2024 Number of Customers M&S Loader \$/customer/yr 2027\$s	\$0.75	1,807,189 \$0.69	\$0.88	\$2.11	5,788,445 \$0.74	\$1.41	\$1.68	\$6.28	2,154 \$96.84	\$105.30	\$3.85	\$19.92	\$142.70	\$7.03	\$39.36	\$40.95	\$128.24	\$55.53	\$196.07
Total O&M Loaders \$/customer/yr	\$52.45	\$48.14	\$61.19	\$147.03	\$51.29	\$98.08	\$117.35	\$437.89	\$6,749.96	\$7,339.61	\$268.19	\$1,388.44		\$489.67	\$2,743.46	\$2,854.05	\$8,938.37	\$3,870.18	\$13,666.07
	\$121.09			\$11.043.68															
LRMC Rental Customer Cost \$/customer/year	\$121.09	\$110.18	\$1,337.60	\$11,043.68	\$106.32	\$1,016.83	\$1,131.63	\$2,285.80	\$19,429.20	\$78,332.51	\$1,679.16	1 \$10,356.75	\$38,040.62	\$19,294.39	\$57,453.34	\$153,331.14	\$73,509.72	\$35,829.76	\$207,105.74

SCG 2027 CAP LRMC Customer Cost/Rental Method Marginal Unit Costs

Customer Services OAM SiCustomer 2027\$ Qualchamber of Customer Accounts OAM 2021\$\$ \$0000y \$50.90 \$		\neg	
Continues			
Marginal Investment: 2027 SCustomer Special Scale Specia	International for All	d.	
2021 Number of Customers 2021 1			
Marginal Investment: 2077 S. Clustomer S500 196.34 S0.00	SWG Vernon Ecogas Customers	iers	
Service Lines	1 1 1 5,991,111 cust 2	11 cust 2	
Service Lines	e0.00 e0.00 e0.00	auat E	
Exclusive Use Facilities			
Vergited RECC factors used to annualiza SRM capital costs 8.37% 0	0 \$7,214,188.70 \$6,900,339.96 ###################################		
Meter & Florius Reg	0 \$7,214,188.70 \$6,900,339.96 ###########		
Service Lines			
Exclusive Use			
Meter & Notaces Reg \$2,071.07 \$0.00 \$0.0			
Service Lines			
Exclusive Use Facilities \$0.3916.03 \$1,239.598.65 \$3,186,717.93 \$847,767.99 \$91,013.35 \$91,105.18 \$1.7541 \$1			
Total Amunalized Marginal Investment: 2027 Scott \$13,851.45 \$12,25,988.65 \$3,186,171.95 \$40,000 \$10,000			
OAM: SCustomer Customer Service Colstoners St. 25 St. 20	\$647,167.99 \$619,013.35 \$91,105.18 \$647,167.99 \$619,013.35 \$91,105.18		
Customer Services OAM Cost 2021's 9000/year \$1.25			
Customer Services OMA \$Clustomer 2021'S \$ 43.13 \$ 0.00 \$ 50.00 \$ 50.00 \$ 50.00 \$ 25.50 \$ 1.1449 \$ 1.14			
Secalation 2012 % to 2027 % 1,1449			
Customer Accounts OAM 2012/s \$0000/y S0 50 50 50 510.86 53.14 59.2 S0 511.76 cust 2 S0 51.76 cust 2 S0 51.77 cust 3			
Outstand Services 29	\$0.00 \$0.00 \$0.00 \$28.97	7	
Output	640.00	4.70	
Customer Services OBM SiCustomer 2021\$ \$1,755.14 \$6,509.71 \$5,087.10 \$1,1449	\$10.86 \$3.64 \$2.92 \$90,331.76 Cust 8	1.76 Cust 8	
Customer Accounts CMB (Customer 2027\$ 1,1449			
Meter & House Reg O&M Total Cost			
2024 Number of Customers 29	\$12,435.50 \$4,171.11 \$3,344.67 \$17.26	6	
Customer Services OAM SiCustomer 2021\$ \$1,446 28 \$0,000.0 \$1,000.00 \$1,000.00 \$1,000.00 \$1,100.00 \$1,1449 \$1			
Secondaric 2021's to 2027's Secondaric 202	1 1 1 5,991,111 cust 2		
Total Service Total Servic			
Cust ner Footage			
Cust ner Footage			
Percent of Total Forciage 0.00%	0 0 0 331 997 562 cust 8	562 cust 8	
Total Footage	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	002 0000	
Allocated SL O&M Coats 5000 \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$45,510 \$0 set 8 \$0 \$0 \$0 \$0 \$0 \$0 \$45,510 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	0.00% 0.00% 0.00% 100.00%	3%	
Allocated St. O&M Coats 2027\$'s \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$51,874 \$2024 Number of Customers \$29 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$5,991,111 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1			
2024 Number of Customers 227\$	1.1449 1.1449 1.1449 Loader Model	9 Loader Model	
Service Lines O&M SCustomer 2027\$ \$62.87 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$8.66 \$ Customer Service & Information Cost (CSI) Costs Accounts (FERC A 2024 Number of Customers Service & Information Cost (CSI) Costs Accounts (FERC A 2024 Number of Customers Service & Information Cost (CSI) Costs Accounts (FERC A 2024 Number of Customers Service & Information Costs (CSI) Costs Accounts (FERC A 2024 Number of Customers Service & Information Costs (CSI) Costs Accounts (FERC A 2024 Number of Customers Service & Information Costs (CSI) Costs Accounts (FERC A 2024 Number of Customers Service & Information Costs (CSI) Costs Accounts (FERC A 2024 Number of Customers Accounts (CSI) Costs Accounts (FERC A 2024 Number of Customers Accounts Costs Accounts (FERC A 2024 Number of Customers Accounts Costs Accounts (FERC A 2024 Number of Customers Accounts Costs Accounts (FERC A 2024 Number of Customers Accounts (FERC A 2024 Number of Customers) (FERC A 2024 Number of Customers Accounts (FERC A 2024 Number of Customers S 190,778.76 S 1813 S 171 S 226 S 132 S 175 S 191.111 Cust 2 2024 Number of Customers S 190,778.76 S 1813 S 171 S 226 S 132 S 175 S 191.111 Cust 2 2024 Number of Customers S 190,778.76 S 1813 S 171 S 226 S 132 S 175 S 191.111 Cust 2 2024 Number of Customers S 190,778.76 S 1813 S 171 S 226 S 132 S 175 S 191.111 Cust 2 2024 Number of Customers S 190,778.76 S 1813 S 171 S 226 S 132 S 175 S 191.111 Cust 2 2024 Number of Customers S 190,778.76 S 1813 S 172.26 S 115.77.16 S 202.05 S 20.87 S 20.8			
2024 Number of Customers Parios & Information O&M S/Customer 2021\$ 8,85,64,13 5,885,84,13 5,			
Customer Services & Information O&M \$Coustomer 2021\$ \$8,566.13 \$86,90.02 \$1,4469 \$1,1449 \$1,14			
Cust Accounts Cable Store 2027\$ 1.1449 1.1	1 1 1 5,991,111	11	
Customer Accounts O&M \$(Customer 2027\$ \$9,764.27 \$76,527.43 \$74,355.88 \$86,036.24 \$65,509.82 \$34,635.22 \$8.17			\$0.00
OBM Loaders : \$\(\) Customer Administrative & General as \(\) of O&M 46.92\(\) & 44.95\(\) & 44.9			
O&M Loaders: S/Customer			
Administrative & General Section CO&M Administrative & General Section CO&M Administrative & General Section Co&M Administrative & General Section Co General Plant as % of O&M General Plant section Co General Plant as % of O&M General Plant a	\$117,934.67 \$68,825.81 \$39,124.77 \$64.79	9	
Administrative & General Sicustomerlyr 2027\$'s \$6,364.11 \$44,649.67 \$41,916.91 \$55,333.76 \$32,292.38 \$18,356.95 \$30.00 \$			
General Plant as % of O&M			
General Plant S/customer/yr 2027\$'s S6.097.47 \$42.778.98 \$40.160.71 \$53.015.44 \$30.939.42 \$17.587.85 \$29.12 \$1.000.000.000.000.000.000.000.000.000.0	\$55,333.76 \$32,292.38 \$18,356.95 \$30.40	3	
Materials & Supplies Loader: Per Customer Direct+A&G+GP O&M \$/customerlyr \$26,025.62 \$182,591.98 \$171,416.51 \$226,283.86 \$132,057.61 \$75,089.57 5,991,111 cust 2 2024 Number of Customers 29 1 1 1 1 1 1 5,991,111 <td>44.95% 44.95% 44.95% cust 4, gen pl</td> <td>% cust 4, gen plant</td> <td></td>	44.95% 44.95% 44.95% cust 4, gen pl	% cust 4, gen plant	
Per Customer Direct+A&G+GP O&M S/customer/yr 2024 Number of Customers 29 1 1 1 1 1 1 5,991,111 cust 2 Total Direct+A&G+GP O&M S000lyr 8755 \$183 \$171 \$226 \$132 \$75 \$5,991,111 \$1 \$1,000/h \$1,000	\$53,015.44 \$30,939.42 \$17,587.85 \$29.12	2	
2024 Number of Customers 29 1 1 1 1 1 5,991,111 cust 2 Total Direct+A&G+GP O&M 5000lyr 5755 \$183 \$171 \$226 \$132 \$75 575 \$75 \$174,749,71 \$1.000			
Total Direct+A&C+GP O&M \$000)r			
Percent of Total	1 1 1 5,991,111 cust 2	11 cust 2	
Allocated M&S \$5,190,778.76 \$5,260 \$1,273 \$1,195 \$1,577 \$920 \$523 \$5,190,778.76 Loader 2024 Number of Customers 29 1 1 1 1 1 5,991,111 cust 2 M&S Loader S/customer/yr 2027's \$181.39 \$1,272.64 \$1,194.74 \$1,577.16 \$920.42 \$523.22 \$0.87			
2024 Number of Customers 29 1 1 1 1 1 5,991,111 oust 2 M&S Loader Sicustomer/yr 2027's \$181.39 \$1,272.64 \$1,194.74 \$1,577.16 \$920.42 \$523.22 \$0.87	\$1,577 \$920 \$523 \$5,190,778.76 Loader Model	78.76 Loader Model	
	1 1 1 5,991,111 cust 2	111 cust 2	
Total O&M Loaders \$/customer/yr \$12,642.98 \$88,701.29 \$83,272.36 \$109,926.35 \$64,152.22 \$36.468.02 \$60.39			
	\$109,926.35 \$64,152.22 \$36,468.02 \$60.39	9	
LRMC Rental Customer Cost \$/customer/year \$100,038.45 \$1,423,463.27 \$3,358,783.18 \$875,029.00 \$751,991.38 \$166,697.98 \$125.17	\$875,029.00 \$751,991.38 \$166,697.98 \$125.17	17	

SCG 2027 CAP LRMC Customer Cost/Rental Method Marginal Unit Costs

New Hookups Rate	Family 1.807,189 0.70% 12,724 \$575,19 \$575,19 \$20.0 \$2,22,2% \$698,96 \$701,80 \$2,00 \$3,00	Master Meter (master Meter (master Meter (master Meter (master Meter Met	Large (100,001 therms per year and greater) 55 0.00% 0 \$30,341.13 \$121,051.32 \$00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73 \$0	Total or Avg. \$2,089,879 \$2,089,879 \$5,788,445 \$0.59% \$33,869 \$682.95 \$321.91 \$5,004 \$121.46% \$122.02% \$829.52 \$390.81 \$436.72 \$44,791.109 \$2,56	Non-Residentia Commercial/inc Very Small - up to 300 therms/year \$1,016,665 86,340 0,77% 666 \$953.00 \$11,773.98 \$10,20.98 \$10,20.98 \$10,20.29 \$1,175.98 \$12,0.24 \$1,158.18 \$13,20.41 \$13,20.24 \$1,20.24 \$1,20.25 \$1,20.24 \$1,20.25 \$		Medium - 3.001 to 50.000 thems/year sass, 0.10 sass, 0.	Large - 50,001 to 250,000 therms/year step - 50,000 therms/year step - 50,000 therms/year - 2,154 0.35% 8 510,747.61 566,514.89 50,00 \$77,662.50 121,62% 122,02% \$13,071.72 \$11,652.18 534,723.90 \$722,888 \$335,60 \$722,888	Very Large - Over 250,000 therms/year 1 5294,437 317 0.30% 1 1 515,835,64 \$912,975,835,56 121,59% 122,02% \$114,083,70 \$1,133,317,22 \$1,133,317,22 \$1,133,317,23 \$1,133,317	200,815 0,70% 1,416 \$1,798,73 \$14,293,81 \$0,000 \$110,902,50 \$2,180,50 \$2,180,50 \$2,175,443,87 \$19,022,19 \$2,775,403	\$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65	Natural Gas Vehicle \$84,593 368 3,67% 14 \$116,295,52 \$113,577,68 \$5,00 \$129,9873,20 121,99% 122,024 \$138,591,94 \$280,465,78 \$3,791,439	Gas Engine \$153,639 571 1.81% 10 \$4.354.07 \$264,175.83 \$5.00 \$269,059.90 121,71% 122,02% \$5.296.30 \$322,016.44 \$3.304,275 \$5.944.44 \$3.304,275	Noncore Retail G-30 - Noncore Distribution \$348,201 490 0.19% 1 \$180,093.35 \$494,215.02 \$38,005.59 \$710,613.95 \$710,613.95 \$22,02% 122,02% \$219,748.20 \$5822,808.76 \$756,012	Transmission \$34,658 17 0.00% 0 \$387,086.03 ************************************			\$600,915.2 \$437,536.1 \$2,219,865. 122.01% 122.02% \$1,441,500 \$733,260.3 \$2,174,760.
Single Family Chetached Family (Detached homes)	Family 1.807,189 0.70% 12,724 \$575,19 (\$575,19) \$0.00 121,52% 122,02% \$698,96 \$573,89 \$12,028 \$12,028 \$12,028 \$12,028 \$12,028	Small (up to 100,000 therms/year) 120,098 0.19% 234 \$2,211.86 \$15,120.25 \$30,000 \$17,332.11 121,62% \$2,901.35 18,450.32 \$21,140.46 \$4,941,970	(100.001 therms per year and greater) 55 0.00% 0 \$30,341.13 \$121,051.32 \$0.00 \$151.392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,696.73	Total or Avg. \$2,089,879 5,788,445 0,59% 33,869 \$682,95 (\$321,91) \$0.00 \$361.04 121,46% 122,02% \$829,52 \$392,81 \$438,72 \$14,791,109	Very Small - up to 300 thermalyear \$1,016,665 \$ 66,340 0.77% 666 \$ 695.300 \$11,773.98 \$ 121.53% 122.02% \$ 1,158.18 \$13,203.18 \$14,362.36 \$9,561,563 \$ 9,561,563	Small - 301 to 3,000 therms/year \$814,328	3,001 to 50,000 therms/year \$339,010 47,978 0,59% 283 \$3,129,74 \$16,441,93 \$306,19 \$22,063,09 \$23,866,29 \$52,063,09 \$23,866,28	to 250,000 therms/year \$167,285 \$167,285 \$2,154 0.35% 8 \$10,747.61 \$60,914.89 \$10,747.62.50 \$12,022 \$13,071.72 \$13,071.72 \$13,071.72 \$15,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72	Over 250,000 therms/year \$294,437 317 0.30% 1 \$15,835,64 \$912,897,93 \$0.00 \$228,623,58 122,02% 122,02% \$11,14,063,70 \$1,133,317,52 \$1,063,75	200.815 0.70% 1,416 \$1,798.73 \$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87	Air Conditioning \$435 4 0.00% 0 \$6.855.04 \$101.990.87 \$0.00 \$121.67% 122.02% \$8,340.29 \$124,416.85 \$132,756.98	Natural Gas Vehicle \$84,593 368 3,67% 14 \$116,295,52 \$113,577,68 \$5,00 \$129,9873,20 121,99% 122,024 \$138,591,94 \$280,465,78 \$3,791,439	Engine \$153,639 571 1.81% 10 \$4,354.07 \$264,715.83 \$269,069.90 121,71% 122.02% \$3229,069.90 \$322,916.64 \$328,315.94 \$328,315.94	Distribution \$348,201 490 0.19% 1 \$180,093.35 \$3484,215.02 \$36,005.59 \$710,613.35 122.02% 122.02% \$219.748.20 \$803,006.55 \$822,808.76 \$755,012	Тransmission \$34,658 17 0.00% 0 \$387.088.03 ####################################	\$382,859 507 0.18% 1 \$187,034.00 \$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$644,380.10	 3million \$123,637 326 19.20% 10.20% 5133,929.38 \$245,324.16 \$0.00 \$379,253.54 \$122,02% \$163,413.68 \$299,354.16 \$462,767.84 	> 3millior \$91,014 41 0.00% 0 51,181,414, \$600,915,2 \$437,536,1 \$2,219,865, 122,01% 122,02% \$1,441,500 \$733,260.
Cotached homes	1,807,189 0.70% 12,724 \$575,19 \$0.00 \$0.00 \$121,52% 122,02% \$698,96 \$701,86 (\$2,91) (\$36,96) (\$36,96)	(up to 100,000 therms/year) 120,098 0.19% 234 \$2,211.86 \$15,120.25 \$0.00 \$17,332.11 121,62% 122,02% 318,450.32 \$2,1140.46 \$4,941,970	(100.001 therms per year and greater) 55 0.00% 0 \$30,341.13 \$121,051.32 \$0.00 \$151.392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,696.73	\$2,089,879 5,788,445 0,59% 33,869 33,869 \$682,95 (\$321,91) \$0,00 121,46% 122,02% \$829,52 \$392,81 \$436,72 \$14,791,109	up to 300 thems/year \$1,016,565 86,340 0.77% 666 \$953.00 \$10,820.90 \$20.90 \$11,773.98 121,25% \$1,158.18 \$13,204.18 \$13,204.28 \$13,204.28	301 to 3,000 therms/year \$14,328 64,026 0.72% 459 \$1,571,26 \$11,477,44 312,718,70 \$122,02% \$1,500,254 \$15,511,76 \$13,602,54 \$15,511,76 \$7,115,656	3,001 to 50,000 therms/year \$339,010 47,978 0,59% 283 \$3,129,74 \$16,441,93 \$306,19 \$22,063,09 \$23,866,29 \$52,063,09 \$23,866,28	to 250,000 therms/year \$167,285 \$167,285 \$2,154 0.35% 8 \$10,747.61 \$60,914.89 \$10,747.62.50 \$12,022 \$13,071.72 \$13,071.72 \$13,071.72 \$15,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72 \$10,071.72	Over 250,000 therms/year \$294,437 317 0.30% 1 \$15,835,64 \$912,897,93 \$0.00 \$228,623,58 122,02% 122,02% \$11,14,063,70 \$1,133,317,52 \$1,063,75	200.815 0.70% 1,416 \$1,798.73 \$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87	\$435 4 0.00% 0 \$6,855.04 \$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.38	\$84,593 368 367% 14 \$116,295.52 \$113,577.68 \$50.00 \$229,673.20 121,99% 122,02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791.439	\$153,639 571 1.81% 10 \$4,354.07 \$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94 \$3,394,275	\$348,201 490 0.19% 1 \$180.093.35 \$494,215.02 \$36,305.59 \$710,613.95 122.02% \$219,748.20 \$603,060.55 \$822,808.76	\$34,658 17 0.00% 0 \$387,088.03 ####################################	\$382,859 507 0.18% 1 \$187,034.00 \$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$644,380.10	\$123,637 326 19,20% 10 \$133,929,38 \$245,324,16 \$0,00 \$379,253,54 122,02% \$163,413,68 \$299,354,16 \$462,767,84	\$1,014 41 0.00% 0 \$1,181,414. \$600,915.2 \$437,536.6 \$2,219,885. 122.01% 122.02% \$1,441,500 \$733,260.
NCO Method: 2024 Number of Customers 3,861,103 New Hockups Rate 0,54% No of New Customer Hockups /year 20,933 Marginal Investment: \$(Customer Meter & House Reg 5865,42 Service Lines (\$885,42 Service Lines (\$885,42 Service Lines (\$90,00 Total Marginal Investment S/customer 50,00 Weighted PVRR for Meter & House Reg 121,49% PVCC for Service Lines 122,02% PVRR: Meter & House Reg 5(customer 122,02% PVRR: Meter & House Reg Sicustomer 5332,70 Meter & House Reg Sicustomer 5338,77 Meter & House Reg Sicustomer 5338,77 Total PVRR of Hockup Cost for Class \$'s (\$76,881) PVRR of Hockup Cost Sicustomer (\$5,02) O&M Cost wil Coaders SiCustomer (\$6,02) O&M Cost wil Coaders SiCustomer/yr \$52,45 Total Direct O&M \$56,27 Total O&M Loaders SiCustomer/yr \$52,45	0.70% 12,724 \$575.19 (\$575.19) \$0.00 \$0.00 121.52% 122.02% \$698.96 -\$701.86 (\$2.91) (\$36.967) (\$0.02)	0.19% 234 \$2,211.86 \$15,120.25 \$0.00 \$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$2,1,140.46	0.00% 0 \$30,341.13 \$121,051.32 \$0.00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73 \$0	5,788,445 0,59% 33,869 3,869 5682,95 (\$321,91) 80,00 121,46% 122,02% \$829,52 \$392,81 \$438,72 \$14,791,109	86,340 0.77% 666 \$953.00 \$10,820.98 \$0.00 \$11,773.98 122.02% \$1,158.18 \$13,204.18 \$14,362.36	64.026 0.72% 459 \$1,571.26 \$11,147.44 \$0.00 \$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76	47,978 0.59% 283 \$3,129.74 \$16,441,93 \$0.00 \$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757,582	2,154 0.35% 8 \$10,747.61 \$66.914.89 \$77,662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$772,888	317 0.30% 1 \$15,835,64 \$912,987,93 \$0.00 \$928,823.58 121,59% 122,02% \$19,253.82 \$1,114,063,70 \$1,133,317,52 \$1,085,382	0.70% 1,416 \$1,798.73 \$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87 \$19,622.19	4 0.00% 0 \$6,855.04 \$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$132,756.94	368 3.67% 14 \$116,295.52 \$113,577.68 \$0.00 \$229,873.20 121,99% 122,02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	571 1.81% 10 10 54.354.07 \$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94	490 0.19% 1 \$180.093.35 \$494.215.02 \$36,305.59 \$710.613.95 122.02% 122.02% \$219,748.20 \$603.060.55 \$822,808.76	17 0.00% 0 \$387,088.03 ############ \$147,520.52 ########### 122.00% 122.02% \$472,244.82 \$1,835,355.11	507 0.18% 1 \$187,034.00 \$528,076.85 \$40,034.69 \$0.00 122.02% \$228,182.80 \$644,380.10	326 19,20% 10 \$133,929.38 \$245,324.16 \$0.00 \$379,253.54 122.02% \$163,413.68 \$299,354.16 \$462,767.84	41 0.00% 0 \$1,181,414 \$600,915.2 \$437,536.1 \$2,219,865 122.01% 122.02% \$1,441,500 \$733,260.3 \$2,174,760.
2024 Number of Customers 3,861,103	0.70% 12,724 \$575.19 (\$575.19) \$0.00 \$0.00 121.52% 122.02% \$698.96 -\$701.86 (\$2.91) (\$36.967) (\$0.02)	0.19% 234 \$2,211.86 \$15,120.25 \$0.00 \$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$2,1,140.46	0.00% 0 \$30,341.13 \$121,051.32 \$0.00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73 \$0	33,869 \$682.95 (\$321.91) \$0.00 \$361.04 121.46% 122.02% \$829.52 -\$392.81 \$436.72 \$14,791,109	0.77% 666 \$953.00 \$10,820.98 \$0.00 \$11,773.98 122.02% \$1,158.18 \$13,204.18 \$14,362.36	0.72% 459 \$1,571.26 \$11,147.44 \$0.00 \$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76	0.59% 283 \$3,129.74 \$16,441.93 \$0.00 \$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757.582	0.35% 8 \$10,747.61 \$66,914.89 \$0.00 \$77,662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$722,888	0.30% 1 \$15,835.64 \$912,987.93 \$0.00 \$928,823.58 121.59% 122.02% \$19,253.82 \$1,114,063.70 \$1,133,317.52	0.70% 1,416 \$1,798.73 \$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87 \$19,622.19	0 \$6,855.04 \$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.94	3.67% 14 \$116,295.52 \$113,577.68 \$0.00 \$229,873.20 121.99% 122.02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	1.81% 10 \$4,354.07 \$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94	0.19% 1 \$180.093.35 \$494.215.02 \$36,305.59 \$710.613.95 122.02% \$219.748.20 \$603.060.55 \$822,808.76	0.00% 0 \$387,088.03 ########## \$147,520.52 ########### 122.00% 122.02% \$472,244.82 \$1,835,355.11	0.18% 1 \$187,034.00 \$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$44,380.10 \$872,552.89	19.20% 10 \$133,929,38 \$245,324.16 \$0.00 \$379,253.54 122.01% 122.02% \$163,413.68 \$299,354.16 \$462,767.84	0.00% 0 \$1,181,414 \$600,915.2 \$437,536.1 \$2,219,865. 122.01% 122.02% \$1,441,500 \$733,260.: \$2,174,760.
New Hookups Rate 0.54%	0.70% 12,724 \$575.19 (\$575.19) \$0.00 \$0.00 121.52% 122.02% \$698.96 -\$701.86 (\$2.91) (\$36.967) (\$0.02)	0.19% 234 \$2,211.86 \$15,120.25 \$0.00 \$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$2,1,140.46	0.00% 0 \$30,341.13 \$121,051.32 \$0.00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73 \$0	33,869 \$682.95 (\$321.91) \$0.00 \$361.04 121.46% 122.02% \$829.52 -\$392.81 \$436.72 \$14,791,109	0.77% 666 \$953.00 \$10,820.98 \$0.00 \$11,773.98 122.02% \$1,158.18 \$13,204.18 \$14,362.36	0.72% 459 \$1,571.26 \$11,147.44 \$0.00 \$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76	0.59% 283 \$3,129.74 \$16,441.93 \$0.00 \$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757.582	0.35% 8 \$10,747.61 \$66,914.89 \$0.00 \$77,662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$722,888	0.30% 1 \$15,835.64 \$912,987.93 \$0.00 \$928,823.58 121.59% 122.02% \$19,253.82 \$1,114,063.70 \$1,133,317.52	0.70% 1,416 \$1,798.73 \$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87 \$19,622.19	0 \$6,855.04 \$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.94	3.67% 14 \$116,295.52 \$113,577.68 \$0.00 \$229,873.20 121.99% 122.02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	1.81% 10 \$4,354.07 \$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94	0.19% 1 \$180.093.35 \$494.215.02 \$36,305.59 \$710.613.95 122.02% \$219.748.20 \$603.060.55 \$822,808.76	0.00% 0 \$387,088.03 ########## \$147,520.52 ########### 122.00% 122.02% \$472,244.82 \$1,835,355.11	0.18% 1 \$187,034.00 \$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$44,380.10 \$872,552.89	19.20% 10 \$133,929,38 \$245,324.16 \$0.00 \$379,253.54 122.01% 122.02% \$163,413.68 \$299,354.16 \$462,767.84	0.00% 0 \$1,181,414 \$600,915.2 \$437,536.1 \$2,219,865. 122.01% 122.02% \$1,441,500 \$733,260.: \$2,174,760.
No of New Customer Hockups /year 20,933 Marginal Investment: \$Customer \$685.42 Meter & House Reg \$685.42 Service Lines (\$685.42) Exclusive Use Facilities \$0.00 Total Marginal Investment Sicustomer \$0.00 Weighted PVRR for Meter & House Reg 121.49% PVCC for Service Lines 122.02% PVRR: Meter & House Reg \$332.70 Service Lines Sicustomer \$330.37 PVRR of Hookup Cost Sicustomer \$330.37 PVRR of Hookup Cost Sicustomer (\$3.57) Total PVRR of Hookup Cost Sicustomer (\$6.85) PVRR of Hookup Cost Sicustomer (\$6.02) O&M Cost Wi Loaders Sicustomer \$56.27 Total Drect O&M \$56.27 Total O&M Loaders Sicustomer/yr \$52.45	\$575.19 (\$575.19) \$0.00 \$0.00 \$121.52% \$122.02% \$698.96 \$7701.86 (\$2.91) (\$36.987) (\$0.02)	234 \$2,211.86 \$15,120.25 \$0.00 \$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$21,140.46	0 \$30,341.13 \$121,051.32 \$0.00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73	33,869 \$682.95 (\$321.91) \$0.00 \$361.04 121.46% 122.02% \$829.52 -\$392.81 \$436.72 \$14,791,109	\$953.00 \$10,820.98 \$0.00 \$11,773.98 121.53% 122.02% \$1,158.18 \$13,204.18 \$14,362.36 \$9,561.563	\$1,571.26 \$11,147.44 \$0.00 \$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76	283 \$3,129.74 \$16,441.93 \$0.00 \$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757.582	8 \$10,747.61 \$66,914.89 \$0.00 \$77,662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$722,888	1 \$15,835,64 \$912,987,93 \$0.00 \$928,823,58 121,59% 122,02% \$19,253,82 \$1,114,063,70 \$1,133,317,52 \$1,085,382	1,416 \$1,798.73 \$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87 \$19,622.19	0 \$6,855.04 \$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.94	14 \$116,295.52 \$113,577.68 \$0.00 \$229,873.20 121.99% 122.02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	10 \$4,354.07 \$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94	1 \$180,093.35 \$494,215.02 \$36,305.59 \$710,613.95 122.02% 122.02% \$219,748.20 \$603,060.55 \$822,808.76 \$755,012	0 \$387.088.03 ########### \$147.520.52 ########### 122.00% 122.02% \$472.244.82 \$1.835.355.11	\$187,034,00 \$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$644,380.10 \$872,562.89	10 \$133,929,38 \$245,324.16 \$0.00 \$379,253.54 122.01% 122.02% \$163,413.68 \$299,354.16 \$462,767.84	0 \$1,181,414. \$600,915.2 \$437,536.1 \$2,219,865. 122.01%, 122.02% \$1,441,500 \$733,260.3 \$2,174,760.
Marginal Investment: \$/Customer \$685.42 Meter & House Reg \$685.42 Service Lines (\$688.42) Exclusive Use Facilities \$0.00 Total Merginal Investment \$/customer \$0.00 Weighted PVRR for Meter & House Reg 121.49% PVCC for Service Lines 122.02% PVRR: Meter & House Reg \$/customer \$33.2.70 Service Lines \$/customer \$383.37 PVRR of Hookup Cost \$/customer (\$3.67) Total PVRR of Hookup Cost for Class \$'s (\$76.861) PVRR of Hookup Cost & Gustomer (\$0.02) OBM Cost w/Loaders \$/customer \$56.27 Total Dred O&M \$56.27 Total Direct O&M \$52.45	\$575.19 (\$575.19) \$0.00 \$0.00 121.52% 122.02% \$698.96 -\$701.86 (\$2.91) (\$36,987) (\$0.02)	\$2,211.86 \$15,120.25 \$0.00 \$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$21,140.46	\$30,341.13 \$121,051.32 \$0,00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73 \$0	\$682.95 (\$321.91) \$0.00 \$361.04 121.46% 122.02% \$829.52 -\$392.81 \$436.72 \$14,791,109	\$953.00 \$10,820.98 \$0.00 \$11,773.98 121.53% 122.02% \$1,158.18 \$13,204.18 \$14,362.36 \$9,561.563	\$1,571.26 \$11,147.44 \$0.00 \$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76	\$3,129.74 \$16,441.93 \$0.00 \$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757.582	\$10,747.61 \$66,914.89 \$0.00 \$77.662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$722,888	\$15,835,64 \$912,987,93 \$0.00 \$928,823,58 121,59% 122,02% \$19,253,82 \$1,114,063,70 \$1,133,317,52 \$1,085,383	\$1,798,73 \$14,293,81 \$0.00 \$16,092.55 121,21% 122,02% \$2,180,32 \$17,441,87 \$19,622,19	\$6,855.04 \$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.94	\$116,295.52 \$113,577.68 \$0.00 \$229,873.20 121.99% 122.02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	\$4.354.07 \$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,313 \$3,394,275	\$494,215.02 \$36,305.59 \$710,613.95 122.02% 122.02% \$219,748.20 \$603,060.55 \$822,808.76 \$755,012	\$387,088.03 ########### \$147,520.52 ############### 122.00% 122.02% \$472,244.82 \$1,835,355.11	\$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$644,380.10 \$872,562.89	\$133,929,38 \$245,324.16 \$0.00 \$379,253.54 122.01% 122.02% \$163,413.68 \$299,354.16 \$462,767.84	\$1,181,414, \$600,915.2 \$437,536.1 \$2,219,865. 122.01% 122.02% \$1,441,500 \$733,260.3 \$2,174,760.
Meter & House Reg \$685.42	\$575.19) \$0.00 \$0.00 \$121.52% 122.02% \$698.96 -\$701.86 (\$2.91) (\$36.987) (\$0.02)	\$15,120.25 \$0.00 \$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$21,140.46 \$4,941,970	\$121,051.32 \$0.00 \$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$144,695.73 \$0	(\$321.91) \$0.00 \$361.04 121.46% 122.02% \$829.52 -\$392.81 \$436.72 \$14,791,109	\$10,820,98 \$0.00 \$11,773,98 121,53% 122,02% \$1,158.18 \$13,204.18 \$14,362,36 \$9,561,563	\$11,147.44 \$0.00 \$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76 \$7,115,656	\$16,441.93 \$0.00 \$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757,582	\$66,914.89 \$0.00 \$77,662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$722,888	\$912,987.93 \$0.00 \$928,823.58 121.59% 122.02% \$19,253.82 \$1,114,063.70 \$1,133,317.52 \$1,085,383	\$14,293.81 \$0.00 \$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87 \$19,622.19	\$101,960.87 \$0.00 \$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.94	\$113,577.68 \$0.00 \$229,873.20 121.99% 122.02% \$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	\$264,715.83 \$0.00 \$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94 \$3,394,275	\$494,215.02 \$36,305.59 \$710,613.95 122.02% 122.02% \$219,748.20 \$603,060.55 \$822,808.76 \$755,012	######################################	\$528,076.85 \$40,034.69 \$0.00 122.00% 122.02% \$228,182.80 \$644,380.10 \$872,562.89	\$245,324.16 \$0.00 \$379,253.54 122.01% 122.02% \$163,413.68 \$299,354.16 \$462,767.84	\$600,915.2 \$437,536.1 \$2,219,865. 122.01% 122.02% \$1,441,500 \$733,260.3 \$2,174,760.
Total Marginal Investment \$Coustomer \$0.00	\$0.00 121.52% 122.02% \$698.96 -\$701.86 (\$2.91) (\$36.987) (\$0.02)	\$17,332.11 121.62% 122.02% \$2,690.13 \$18,450.32 \$21,140.46 \$4,941,970	\$151,392.44 121.89% 122.02% \$36,984.17 \$147,711.56 \$184,695.73 \$0	\$361.04 121.46% 122.02% \$829.52 -\$392.81 \$436.72 \$14,791,109	\$11,773.98 121.53% 122.02% \$1,158.18 \$13,204.18 \$14,362.36 \$9,561.563	\$12,718.70 121.51% 122.02% \$1,909.21 \$13,602.54 \$15,511.76 \$7,115,656	\$19,571.67 121.61% 122.02% \$3,806.19 \$20,063.09 \$23,869.28 \$6,757,582	\$77,662.50 121.62% 122.02% \$13,071.72 \$81,652.18 \$94,723.90 \$722,888	\$926,823.58 121.59% 122.02% \$19,253.82 \$1,114,063.70 \$1,133,317.52 \$1,085,383	\$16,092.55 121.21% 122.02% \$2,180.32 \$17,441.87 \$19,622.19	\$108,815.91 121.67% 122.02% \$8,340.29 \$124,416.65 \$132,756.94	\$229,873.20 121.99% 122.02% \$141.873.84 \$138,591.94 \$280,465.78 \$3,791,439	\$269,069.90 121.71% 122.02% \$5,299.30 \$323,016.64 \$328,315.94 \$3,394,275	\$710,613.95 122.02% 122.02% \$219,748.20 \$603,060.55 \$822,808.76 \$755,012	122.00% 122.02% \$472,244.82 \$1,835,355.11	\$0.00 122.00% 122.02% \$228,182.80 \$644,380.10 \$872,562.89	\$379,253.54 122.01% 122.02% \$163,413.68 \$299,354.16 \$462,767.84	\$2,219,865 122.019 122.02% \$1,441,500 \$733,260. \$2,174,760
PVCC for Service Lines 122.02% PVRR: Meter & House Reg Sicustomer \$832.70 Service Lines Sjoustomer \$833.70 Service Lines Sjoustomer \$838.37 PVRR of Hockup Cost Scustomer (\$3.37) Total PVRR of Hockup Cost for Class \$'s (\$76.861) PVRR of Hockup Cost for Class \$'s (\$76.861) PVRR of Hockup Cost Sicustomer (\$0.02) O&M Cost w/Loaders SiCust. Total Direct O&M \$56.27 Total O&M Loaders Sicustomer/yr \$52.45	\$698.96 -\$701.86 (\$2.91) (\$36,987) (\$0.02)	\$2,690.13 \$18,450.32 \$21,140.46 \$4,941,970	\$36,984.17 \$147,711.56 \$184,695.73 \$0	\$829.52 -\$392.81 \$436.72 \$14,791,109	\$1,158.18 \$13,204.18 \$14,362.36 \$9,561.563	\$1,909.21 \$13,602.54 \$15,511.76 \$7,115,656	\$3,806.19 \$20,063.09 \$23,869.28 \$6,757,582	\$13,071.72 \$81,652.18 \$94,723.90 \$722,888	\$19,253.82 \$1,114,063.70 \$1,133,317.52 \$1,085,383	\$2,180.32 \$17,441.87 \$19,622.19	\$8,340.29 \$124,416.65 \$132,756.94	\$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	\$5,299.30 \$323,016.64 \$328,315.94 \$3,394,275	\$219,748.20 \$603,060.55 \$822,808.76 \$755,012	\$472,244.82 \$1,835,355.11	\$228,182.80 \$644,380.10 \$872,562.89	\$163,413.68 \$299,354.16 \$462,767.84	\$1,441,500 \$733,260. \$2,174,760
PVRR: Meter & House Reg Sicustomer Service Lines Sicustomer Service Serv	\$698.96 -\$701.86 (\$2.91) (\$36.987) (\$0.02)	\$18,450.32 \$21,140.46 \$4,941,970	\$36,984.17 \$147,711.56 \$184,695.73 \$0	\$829.52 -\$392.81 \$436.72 \$14,791,109	\$13,204.18 \$14,362.36 \$9,561,563	\$13,602.54 \$15,511.76 \$7,115,656	\$3,806.19 \$20,063.09 \$23,869.28 \$6,757,582	\$81,652.18 \$94,723.90 \$722,888	\$19,253.82 \$1,114,063.70 \$1,133,317.52 \$1,085,383	\$17,441.87 \$19,622.19	\$124,416.65 \$132,756.94	\$141,873.84 \$138,591.94 \$280,465.78 \$3,791,439	\$5,299.30 \$323,016.64 \$328,315.94 \$3,394,275	\$603,060.55 \$822,808.76 \$755,012	\$472,244.82 \$1,835,355.11	\$644,380.10 \$872,562.89	\$299,354.16 \$462,767.84	\$733,260.3 \$2,174,760.
Meter & House Reg. \$(customer \$832.70	-\$701.86 (\$2.91) (\$36.987) (\$0.02)	\$18,450.32 \$21,140.46 \$4,941,970	\$147,711.56 \$184,695.73 \$0	-\$392.81 \$436.72 \$14,791,109	\$13,204.18 \$14,362.36 \$9,561,563	\$13,602.54 \$15,511.76 \$7,115,656	\$20,063.09 \$23,869.28 \$6,757,582	\$81,652.18 \$94,723.90 \$722,888	\$1,114,063.70 \$1,133,317.52 \$1,085,383	\$17,441.87 \$19,622.19	\$124,416.65 \$132,756.94	\$138,591.94 \$280,465.78 \$3,791,439	\$323,016.64 \$328,315.94 \$3,394,275	\$603,060.55 \$822,808.76 \$755,012	\$1,835,355.11 ##################################	\$644,380.10 \$872,562.89	\$299,354.16 \$462,767.84	\$733,260. \$2,174,760
Service Lines S/customer \$836.37	-\$701.86 (\$2.91) (\$36.987) (\$0.02)	\$18,450.32 \$21,140.46 \$4,941,970	\$147,711.56 \$184,695.73 \$0	-\$392.81 \$436.72 \$14,791,109	\$13,204.18 \$14,362.36 \$9,561,563	\$13,602.54 \$15,511.76 \$7,115,656	\$20,063.09 \$23,869.28 \$6,757,582	\$81,652.18 \$94,723.90 \$722,888	\$1,114,063.70 \$1,133,317.52 \$1,085,383	\$17,441.87 \$19,622.19	\$124,416.65 \$132,756.94	\$138,591.94 \$280,465.78 \$3,791,439	\$323,016.64 \$328,315.94 \$3,394,275	\$603,060.55 \$822,808.76 \$755,012	\$1,835,355.11 ##################################	\$644,380.10 \$872,562.89	\$299,354.16 \$462,767.84	\$733,260. \$2,174,760
PVRR of Hookup Cost \$(austomer (\$3.67) Total PVRR of Hookup Cost for Class \$'s (\$76.861) PVRR of Hookup Cost \$(austomer (\$0.02) O&M Cost w/Loaders \$(customer (\$0.02) O&M Cost w/Loaders \$(cust. Total Direct O&M \$56.27 Total O&M Loaders \$(austomer/yr \$52.45 Total O&M Loaders \$(austomer/yr \$60.45 Total O&M Loaders \$(austomer/yr \$60.45	(\$2.91) (\$36,987) (\$0.02)	\$21,140.46 \$4,941,970	\$184,695.73 \$0	\$436.72 \$14,791,109	\$14,362.36 \$9,561,563	\$15,511.76 \$7,115,656	\$23,869.28 \$6,757,582	\$94,723.90 \$722,888	\$1,133,317.52 \$1,085,383	\$19,622.19	\$132,756.94	\$280,465.78 \$3,791,439	\$328,315.94 \$3,394,275	\$822,808.76 \$755,012	############	\$872,562.89	\$462,767.84	\$2,174,760
Total PVRR of Hookup Cost for Class \$'s (\$76.861)	(\$36,987) (\$0.02)	\$4,941,970	\$0	\$14,791,109	\$9,561,563	\$7,115,656	\$6,757,582	\$722,888	\$1,085,383			\$3,791,439	\$3,394,275	\$755,012				
PVRR of Hookup Cost \$/customer (\$0.02) O&M Cost w/Loaders \$/cust. \$6.27 Total Direct O&M \$56.27 Total O&M Loaders \$/customer/yr \$52.45	(\$0.02)									\$21,115,403								
O&M Cost wil oaders \$(Cust.) Total Direct O&M \$56.27 Total O&M Loaders \$(customer/yr) \$52.45	,,,,,	341.15	\$0.00	\$2.56	\$110.74	\$111.14	\$140.00			\$138.31	\$0.00	\$10,302.82		\$1,540,84	\$0.00	\$1,575,02	\$14.195.33	\$0.00
Total Direct O&M \$56.27 Total O&M Loaders \$(oustomer/yr \$52.45								4000.00	\$5,425.5Z	\$150.51	\$0.00	\$10,302.02	45,544.44	\$1,040.04	\$0.00	\$1,575.02	\$14,133.33	\$0.00
Total Direct O&M \$56.27 Total O&M Loaders \$/customer/yr \$52.45																		
Total O&M Loaders \$/customer/yr \$52.45																		
,	\$51.65	\$65.65	\$157.74	\$55.03	\$105.23	\$125.90	\$469.79	\$7,241.70	\$7,874.31	\$287.73	\$1,489.59	\$10,670.91	\$525.35	\$2,943.33	\$3,061.97	\$9,589.54	\$4,152.12	\$14,661.6
LRMC NCO Customer Cost \$/customer/year \$108.71	\$48.14	\$61.19	\$147.03	\$51.29	\$98.08	\$117.35	\$437.89	\$6,749.96	\$7,339.61	\$268.19	\$1,388.44	\$9,946.31	\$489.67	\$2,743.46	\$2,854.05	\$8,938.37	\$3,870.18	\$13,666.0
	\$99.77	\$167.99	\$304.77	\$108.87	\$314.05	\$354.39	\$1,048.53	\$14,327.27	\$18,637.84	\$694.24	\$2,878.04	\$30,920.04	\$6,959.46	\$7,227.64	\$5,916.03	\$20,102.93	\$22,217.63	\$28,327.7
NCO w/ Replacement Cost Adder																		
Marginal Investment: Meter & House Reg \$/Customer \$685.42	\$575.19	\$2,211.86	\$30,341.13	\$682.95	\$953.00	\$1,571.26	\$3,129.74	\$10,747.61	\$15,835.64	\$1,798.73	\$6,855.04	\$116,295.52	\$4,354.07	\$180,093.35	\$387,088.03	\$187,034.00	\$133,929.38	\$1,181,414
Service Lines Replacement Cost \$7,030.42	\$6,643.77	\$13,926.21	\$107,685.46	\$7,053.73	\$10,019.40	\$10,096.82	\$14,311.63	\$77,619.01	\$662,819.31	\$12,825.15	\$73,739.01	\$113,930.69	\$253,438.54	\$408,688.57	************	\$433,060.89	\$193,496.32	\$440,051.
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	\$36 305 59	\$147 520 52	\$40 034 69	\$0.00	\$437 536
Total \$0.00	\$0.00	\$17,332.11	\$151,392.44	\$361.04	\$11,773.98	\$12,718.70	\$19,571.67	\$77,662.50	\$928,823.58	\$16,092.55	\$108,815.91	\$229,873.20	\$269,069.90	\$710,613.95	***************************************	\$0.00	\$379,253.54	\$2,219,865
											1							
Weighted PVRR for Meter & House Reg 121.49%	121.52%	121.62%	121.89%	121.46%	121.53%	121.51%	121.61%	121.62%	121.59%	121.21%	121.67%	121.99%	121.71%	122.02%	122.00%	122.00%	122.01%	122.019
PVCC for Service Lines 122% PVCC for Exclusive Use Facilities (Meters)	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122%	122% 121%	122% 121%	122% 121%	122% 121%	122% 121%
Weighted Replacement Factor for Meter & House Reg 1.88% Replacement Factor for Service Lines 1.5% Replacement Factor for Exclusive Use Facilities	1.64% 1.5%	1.78% 1.5%	0.73% 1.5%	1.96% 1.5%	1.93% 1.5%	2.08% 1.5%	1.82% 1.5%	1.95% 1.5%	2.09% 1.5%	2.75% 1.5%	1.75% 1.5%	0.27% 1.5%	1.54% 1.5%	0.25% 1.5% 4.00%	0.16% 1.5% 4.00%	0.24% 1.5% 4.00%	0.18% 1.5% 4.00%	0.18% 1.5% 4.00%
Material House Box Booleansest	\$11.44	\$47.75	#000 F0	640.04	600.00	600.70	***	6055.44	0400.04	\$59.90	6445.70	\$384.83	\$81.66	\$544.01	\$752.45	\$550.92	6000 44	60 570 7
Meter & House Reg, Replacement \$15.64			\$268.52	\$16.24	\$22.39	\$39.78	\$69.33	\$255.14	\$402.61		\$145.70						\$292.11	\$2,576.7
Service Lines, Replacement \$128.04	\$121.00	\$253.63	\$1,961.22	\$128.47	\$182.48	\$183.89	\$260.65	\$1,413.64	\$12,071.61	\$233.58	\$1,342.97	\$2,074.97	\$4,615.76	\$7,443.25	\$20,681.37	\$7,887.13	\$3,524.06	\$8,014.4
Exclusive Use Facilities, Replace														\$1,751.69	\$7,117.66	\$1,931.62	\$0.00	\$21,110.5
Replacement Adder \$/Customer \$143.68	\$132.44	\$301.38	\$2,229.75	\$144.70	\$204.87	\$223.66	\$329.98	\$1,668.78	\$12,474.23	\$293.48	\$1,488.68	\$2,459.79	\$4,697.41	\$9,738.95	\$28,551.48	\$10,369.67	\$3,816.16	\$31,701.6
NCO w/o Repl Cost \$/Cust/vr \$108.71							\$1.048.53				1	\$30.920.04	\$6.959.46	\$7.227.64	\$5.916.03	\$20.102.93	\$22.217.63	
NCO w/o Repi Cost: \$/Cust/yr. \$108.71 NCO w/ Repi Cost: \$/Cust/yr. \$252.39	\$99.77	\$167.99	\$304.77	\$108.87	\$314.05	\$354.39		\$14,327,27	\$18,637,84	\$694.24	\$2.878.04							\$28.327.7

LRMC Customer Cost/Rental Method

Marginal Unit Costs
S10

Marginal Unit Costs								,
S10		Noncore Wholesal	e				Total O&M Cost	
	EOR	Wholesale				International	for All	
	G-40	LB	SDG&E	swg	Vernon	Ecogas	Customers	
	G-40	LB	SDG&E	3₩6	Verrion	Ecogas	Customers	
Total Rental Capital (\$000) before RECC	\$27,403	\$13,818	\$35,517	\$7,214	\$6,900	\$1,016		\$6,632,408
NCO Method:								
2024 Number of Customers	29	1	1	1	1	1	5,991,111	cust 2
New Hookups Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
No of New Customer Hookups /year	0	0	0	0	0	0	35,319	
Marginal Investment: \$/Customer								
Meter & House Reg	\$520,195.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Service Lines	\$353,483.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Exclusive Use Facilities	\$71,248.39	\$13,818,202.97	\$35,517,278.40		\$6,900,339.96	#######################################		cust 6, cust 7
Total Marginal Investment \$/customer	\$944,927.05	\$13,818,202.97	\$35,517,278.40	\$7,214,188.70	\$6,900,339.96	************		
Weighted PVRR for Meter & House Reg PVCC for Service Lines	122.02%	400.000/	400.000/	400.000/	400.000/	400.000/		cust 10 2013 RECC
PVCC for Service Lines	122.02%	122.02%	122.02%	122.02%	122.02%	122.02%		2013 RECC
PVRR:								
Meter & House Reg \$/customer	\$634,759.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
Service Lines \$/customer	\$431,334.21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
PVRR of Hookup Cost \$/customer	#######################################		\$0.00	\$0.00	\$0.00	\$0.00		
Total PVRR of Hookup Cost for Class \$'s	\$0	\$0	\$0	\$0	\$0	\$0		
PVRR of Hookup Cost \$/customer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
O&M Cost w/Loaders \$/Cust.								
Total Direct O&M	\$13,564.04	\$95,163.33	\$89,338.89	\$117,934.67	\$68,825.81	\$39,124.77		
Total O&M Loaders \$/customer/yr	\$12,642.98	\$88,701.29	\$83,272.36	\$109,926.35	\$64,152.22	\$36,468.02		
LRMC NCO Customer Cost \$/customer/year	\$26,207.01	\$183,864.62	\$172,611.25	\$227,861.02	\$132,978.03	\$75,592.79		
NCO w/ Replacement Cost Adder								
Marginal Investment: Meter & House Reg \$/Customer	\$520,195.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Service Lines Replacement Cost	\$343,155.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		cust 5
Exclusive Use Facilities	\$71,248.39		\$35,517,278.40		\$6,900,339.96	************		cust 6, cust 7
Total	\$944,927.05	\$13,818,202.97	\$35,517,278.40	\$7,214,188.70	\$6,900,339.96	************		
Weighted PVRR for Meter & House Reg	122.02%							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%							ouot 10
Replacement Factor for Exclusive Use Facilities	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%		cust 10
Meter & House Reg, Replacement	\$893.91							l
Service Lines, Replacement	\$6,249.73							l
Exclusive Use Facilities, Replace	\$3,437.63	\$666,708.77	\$1,713,658.50	\$348,074.41	\$332,931.65	\$49,000.23		
Replacement Adder \$/Customer	\$10,581.27	\$666,708.77	\$1,713,658.50	\$348,074.41	\$332,931.65	\$49,000.23		1
	,	,	. , . , . , . , . , . , . , . , . , . ,		,	,		1
NCO w/o Repl Cost \$/Cust/yr	\$26,207.01	\$183,864.62	\$172,611.25	\$227,861.02	\$132,978.03	\$75,592.79		
NCO w/ Repl Cost: \$/Cust/yr.	\$36,788.29	\$850,573.39	\$1,886,269.75	\$575,935.43	\$465,909.68	\$124,593.03]
<u> </u>								-

								Core							
			Residential Non-Residential												
		Single	Single Multi Master Meter Residential G-10 Gas Air Natrual								Natrual Gas	Gas			
		Family	Family	Small	Large	Total	Very Small	Small	Medium	Large	Very Large	Total	Conditioning	Vehicle	Engine
Γ	2024 Number of Customers	3,861,103	1,807,189	120,098	55	5,788,445	86,340	64,026	47,978	2,154	317	200,815	4	368	571

			Noncore												
			Non-Residential												
		G-30 Small Large EOR Wholesale International									Over All				
		Distribution	Transmission	Total	EG	EG	G-40	LB	SDG&E	SWG	Vernon	Mexacali	Rosarito	Customers	
ſ	2024 Number of Customers	490	17	507	326	41	29	1	1	1	1	1	0	5,991,111	

S10

1) Residential Segmentation

1a) Segmentation of Residential Total Customer Counts into Bands

	Residential										
	Single	Single Multi Master Meter									
	Family	Family	Small	Large	Total						
2024 Number of Customers	3,861,103	1,807,189	120,098	55	5,788,445						
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	Single Multi Master Meter										
	Family	Family	Small	Large	Total							
Per Cust. Meter, Reg. & MSA Investment	\$685.42	\$575.19	\$2,211.86	\$30,341.13								
2024 Number of Customers	3,861,103	1,807,189	120,098	55	5,788,445							
Total Meter, Reg. & MSA Investment	\$2,646,459,371	\$1,039,470,423	\$265,640,423	\$1,668,762	\$3,953,238,978							
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

2) G10 Segmentation 2a) Segmentation of G-10 Total Customer Counts into Bands

	G-10											
	Very Small	Small	Medium	Large	Very Large	Total						
2024 Number of Customers	86,340	64,026	47,978	2,154	317	200,815						
Percent of Total	43%	32%	24%	1%	0%	100%						

values from 'Number of Customers', cust 2 tab

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

			G-1	10		
	Very Small	Small	Medium	Large	Very Large	Total
Per Cust. Meter, Reg & MSA Investment	\$953.00	\$1,571.26	\$3,129.74	\$10,747.61	\$15,835.64	
2024 Number of Customers	86,340	64,026	47,978	2,154	317	200,815
Total Meter, Reg & MSA Investment	\$82,281,981	\$100,601,678	\$150,158,523	\$23,150,341	\$5,019,899	\$361,212,422
Percent of Total Meter, Reg & MSA Investment	23%	28%	42%	6%	1%	100%

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

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

		G-30						
	Distribution Transmission							
2024 Number of Customers	490	17	507					
Percent of Total	97%	3%	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	\$180,093.35	\$387,088.03	
2024 Number of Customers		490	17	507
Total Cost	2013 \$s	\$88,245,742	\$6,580,496	\$94,826,238
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 2027 CAP LRMC Customer Cost Average Per Customer Investment in Meters & Regulators by Customer Class

S10

310															
									Core						
			Residential Non-Residential												
Circle Malti MasterMater Beritanti															
						Residential			(G-10			Gas Air	Natrual Gas	Gas
Investment Per Customer:		Family	,	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Meter, Reg.	2021 \$s	\$508.61	\$426.81	\$1,641.30	\$22,514.50	\$506.78	\$707.17	\$1,165.95	\$2,322.41	\$7,975.21	\$11,750.77	\$1,334.74	\$5,086.75	\$86,296.57	\$3,230.92
Meter, Reg.	2027 \$s	\$685.42	\$575.19	\$2,211.86	\$30,341.13	\$682.95	\$953.00	\$1,571.26	\$3,129.74	\$10,747.61	\$15,835.64	\$1,798.73	\$6,855.04	\$116,295.52	\$4,354.07
Total		\$685.42	\$575.19	\$2,211.86	\$30,341.13	\$682.95	\$953.00	\$1,571.26	\$3,129.74	\$10,747.61	\$15,835.64	\$1,798.73	\$6,855.04	\$116,295.52	\$4,354.07

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

									Core						
				Residentia			Non-Residential Non-Residential								
Single Multi Master Meter Residenti									G-	-10			Gas Air	Natrual Gas	Gas
Investment Per Customer:		Family	Family	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Service Lines	2021 \$s	(\$508.61)	(\$426.81)	\$11,219.91	\$89,825.59	(\$238.87)	\$8,029.66	\$8,271.91	\$12,200.66	\$49,653.90	\$677,478.66	\$10,606.66	\$75,659.61	\$84,279.82	\$196,431.21
Service Lines	2027 \$s	(685.42)	(575.19)	15,120.25	121,051.32	(321.91)	10,820.98	11,147.44	16,441.93	66,914.89	912,987.93	14,293.81	101,960.87	113,577.68	264,715.83
Total		(685.42)	(575.19)	15,120.25	121,051.32	(321.91)	10,820.98	11,147.44	16,441.93	66,914.89	912,987.93	14,293.81	101,960.87	113,577.68	264,715.83

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

Service Lines Repli	acement costs														
									Core						
				Residential							Non-Residential				
		Single	Multi	Maste	r Meter	Residential			G-	-10			Gas Air	Natrual Gas	Gas
Investment Per Cus	stomer:	Family	Family	Small	Large	Average	Very Small	Small	Medium	Large	Very Large	Average	Conditioning	Vehicle	Engine
Service Lines Replace	ceme 2021 \$s	5,216.89	4,929.98	10,333.89	79,907.52	5,234.19	7,434.85	7,492.30	10,619.88	57,596.84	491,842.14	9,516.84	54,717.70	84,541.76	188,062.95
Service Lines						7,053.73	10,019.40	10,096.82	14,311.63	77,619.01	662,819.31	12,825.15	73,739.01	113,930.69	253,438.54
Total	otal 7,030.42 6,643.77 13,926.21 107,685.46 7,053							10,096.82	14,311.63	77,619.01	662,819.31	12,825.15	73,739.01	113,930.69	253,438.54

SCG 2027 CAP LRMC Customer Cost Average Per Customer Investment in

S10

510														
							Noncore							
							Non-Resident	ial						Total
					<3 Million									
G-30 SM. COGEN SMillion EG EOR Wholesale International Investment Per Customer: Distribution Transmission Average G-50 G-50 G-40 LB SDG&E SWG Vernon DGN Rosarito													Over All	
Investment Per C	vestment Per Customer: Distribution Transmission Avera					G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Meter, Reg.	2021 \$s	\$133,637.47	\$287,236.96	\$138,787.75	\$99,381.70	\$876,663.09	\$386,008.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Meter, Reg.	2027 \$s	\$180,093.35	\$387,088.03	\$187,034.00	\$133,929.38	\$1,181,414.08	\$520,195.34	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Total \$180,093.35 \$387,088.03 \$187,034.00 \$133,929.38 \$1,181,414.08 \$520,195.34 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00														

For Res and Non-Residential G10 custo For other classes we multiply average n

Average Per Customer Investment in Service Lines by Customer Class

							Noncore							
							Non-Resident	al						Total
G-30 SM.COGEN EG EOR Wholesale International Distribution Transmission Average G-50 G-50 G-40 LB SDG&E SWG Vernon DGN Rosarito C													Over All	
Investment Per Cu	vestment Per Customer: Distribution Transmission Average					G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers
Service Lines	2021 \$s	\$366,730.07	\$1,116,106.66	\$391,857.09	\$182,041.71	\$445,906.52	\$262,300.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Service Lines						600,915.27	353,483.32	0.00	0.00	0.00	0.00	0.00	0.00	
Total		494,215.02	1,504,094.49	528,076.85	245,324.16	600,915.27	353,483.32	0.00	0.00	0.00	0.00	0.00	0.00	1

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

Service Lines Replacement Costs

Service Lines Rep	Jiacement Costs														
							Noncore								
							Non-Residenti	al						Total	
			G-30 SM. COGEN EG EOR Wholesale International												
Investment Per Co	ustomer:	Distribution	Transmission	Average	G-50	G-50	G-40	LB	SDG&E	SWG	Vernon	DGN	Rosarito	Customers	
Service Lines Repl	ervice Lines Replaceme 2021 \$s 303,265.54 842,635.30 321,350.					326,538.45	254,637.19	0.00	0.00	0.00	0.00	0.00	0.00		
Service Lines						440,051.74	343,155.73	0.00	0.00	0.00	0.00	0.00	0.00		
Total	Total 408,688.57 1,135,557.34 433,060.89 193,496.32 440,051.74 343,155.73 0.00 0.00 0.00 0.00 0.00 0.00														

Meter Cost Detail Source: 2021 MSA Field BW v3 20220428

				avg labor and				
		Meter	Above	nonlabor				
Code	Element	Size	Std	\$/meter	avg \$/meter	avg \$/regulator	Total	
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	

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	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	/	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	Ó	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	\$87,550	\$31,981	\$26,207	\$145,738	\$2,749.77
S50	MM Band 1	5	'n	56	\$154.88	\$644.79	\$262.99	\$8,673	\$36,108	\$14,727	\$59,509	\$1,062.66
S60	MM Band 1	6	ñ	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	Ó	1	\$1,461.01	\$566.35	\$262.99	\$1,461	\$566	\$263	\$2,290	\$2,290.35
S80	MM Band 1	8	n	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	'n	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
100	tot MM 1	10	'	1,736	ψ0,401.00	ψ+,+00.10	ψ0,000.00	\$1,460,470	\$875,835	\$512,999	\$2,849,303	\$1,641.30
					*******	A500.05	#000 4F	00.117	****	****	20.770	******
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

				Number of								Average Meter &
		Meter	Above	customers	avg labor							Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	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	ō	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	Ó	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	\$21,999	\$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	11	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 0	215	\$2,038.84	\$685.14	\$709.64	\$438,351	\$147,305	\$152,573	\$738,229	\$3,433.62
S90	G10 Band 3	9	1	34	\$1,461.01	\$685.14	\$310.83	\$49,674	\$23,295	\$10,568	\$83,537	\$2,456.98 \$3,433.62
91 100	G10 Band 3 G10 Band 3	9 10	1	112 68	\$2,038.84	\$685.14	\$709.64 \$3,300.00	\$228,350 \$370,668	\$76,736 \$301,457	\$79,480 \$224,400	\$384,566	\$3,433.62 \$13,184.19
100	tot Band 3	10		2,114	\$5,451.00	\$4,433.19	\$3,300.00	\$2,451,481	\$1,540,442	\$224,400 \$917,647	\$896,525 \$4,909,569	\$13,184.19
	tot Danu 3			2,114				92,431,401	91,040,442	φ317,047	φ4,303,303	φ2,322.41
31	G10 Band 4	3	1	1	\$270.94	¢200.70	\$320.15	\$271	\$201	\$320	\$792	\$791.87
61	G10 Band 4 G10 Band 4	6	1	3	\$270.94 \$2,038.84	\$200.78 \$566.35	\$320.15 \$320.15	\$271 \$6,117	\$201 \$1,699	\$320 \$960	\$792 \$8,776	\$791.87 \$2,925.34
	G10 Band 4 G10 Band 4	8	0	3 1		\$566.35 \$685.14		\$6,117 \$1,461	\$1,699 \$685	\$960 \$311		
S80 81	G10 Band 4 G10 Band 4	8	1	23	\$1,461.01 \$2,038.84	\$685.14 \$685.14	\$310.83 \$709.64	\$1,461 \$46,893	\$685 \$15,758	\$311 \$16,322	\$2,457 \$78,973	\$2,456.98 \$3,433.62
81 S90	G10 Band 4 G10 Band 4	8 9	0	23 1	\$2,038.84 \$1,461.01	\$685.14 \$685.14	\$709.64 \$310.83	\$46,893 \$1,461	\$15,758 \$685	\$16,322 \$311	\$78,973 \$2,457	\$3,433.62 \$2,456.98
91	G10 Band 4 G10 Band 4	9	1	27	\$2,038.84	\$685.14	\$709.64	\$1,461 \$55,049	\$18,499	\$311 \$19,160	\$2,457 \$92,708	\$2,456.98 \$3,433.62
100	G10 Band 4 G10 Band 4	10	0	3	\$2,038.84 \$5,451.00	\$4,433.19	\$3,300.00	\$16,353	\$18,499	\$9,900	\$92,708 \$39,553	\$3,433.62 \$13,184.19
100	G10 Band 4 G10 Band 4	10	1	3 47	\$5,451.00 \$5,451.00	\$4,433.19 \$4,433.19	\$3,300.00	\$256,197	\$208,360	\$9,900 \$155,100	\$39,553 \$619,657	\$13,184.19 \$13,184.19
100	tot Band 4	10		106	ψυ,4-υ1.00	φ 4 ,433.18	φυ,υυυ.υυ	\$383,801	\$259,187	\$202,384	\$845,373	\$7,975.21
	tot Dallu 4			100				φυσυ,σσι	φ233,101	ψ <u></u> 202,00 4	φυ4υ,υ/ υ	91,313.21
81	G10 Band 5	8	1	1	\$2,038.84	\$685.14	\$709.64	\$2,039	\$685	\$710	\$3,434	\$3,433.62
												,

		Meter	Above	Number of customers	avg labor							Average Meter & Regulator CAPEX/
Code	Rate	Size (1)	Std (2)	(3)	\$/meter	avg \$/meter	avg \$/regulator	tot lab	tot met	tot reg	tot cost	Customer
91 100	G10 Band 5 G10 Band 5	9 10	1	1 14	\$2,038.84 \$5,451.00	\$685.14 \$4,433.19	\$709.64 \$3,300.00	\$2,039 \$76,314	\$685 \$62,065	\$710 \$46,200	\$3,434 \$184,579	\$3,433.62 \$13,184.19
100	tot Band 5	10		16	\$5,451.00	\$4,433.19	\$3,300.00	\$78,353	\$62,750	\$46,910	\$188,012	\$13,164.19
								7.0,000	40-1.00	¥ 10,010	***************************************	****,******
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	Ö	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	\$494.47	\$11,563	\$4,224	\$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
99 100	NGV NGV	10 10	1	30 124	\$739,804.00 \$5,451.00	\$20,289.00 \$4,433.19	\$3,986.00 \$3,300.00	\$22,194,120 \$675,924	\$608,670 \$549.716	\$119,580 \$409.200	\$22,922,370 \$1,634,840	\$764,079.00 \$13,184.19
100	tot NGV	10		289	\$5,451.00	\$4,433.19	\$3,300.00	\$23,102,841	\$1,236,005	\$600.864	\$24,939,710	\$86,296.57
	1011101			200				φ <u>ε</u> σ,τσ <u>ε</u> ,σττ	ψ1,200,000	φοσο,σσ :	ψ2 1,000,7 10	\$00,200.0.
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 GEN	5 5	0	15 9	\$154.88	\$644.79	\$262.99	\$2,323	\$9,672	\$3,945	\$15,940	\$1,062.66
51 S60	GEN	6	0	9 86	\$1,651.88 \$1,461.01	\$603.42 \$566.35	\$494.47 \$262.99	\$14,867 \$125,647	\$5,431 \$48,706	\$4,450 \$22,617	\$24,748 \$196,970	\$2,749.77 \$2,290.35
61	GEN	6	1	107	\$2,038.84	\$566.35	\$320.15	\$218,156	\$60,600	\$34,256	\$313,012	\$2,290.35
S70	GEN	7	Ó	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 tot GEN	10	1	28 638	\$5,451.00	\$4,433.19	\$3,300.00	\$152,628 \$1,176,661	\$124,129 \$510,919	\$92,400 \$373,747	\$369,157 \$2,061,327	\$13,184.19 \$3,230.92
	IOI GEN			038				\$1,170,001	\$510,919	\$3/3,/4/	\$2,001,327	\$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	i	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
F4	020 Di-+		_	_	£4 CE4 DC	#C00.4C	£404.47	#C COO	CO 444	64.070	640.000	60 740 77
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 61	G30 Dist G30 Dist	6 6	1	2 7	\$1,461.01 \$2,038.84	\$566.35 \$566.35	\$262.99 \$320.15	\$2,922 \$14,272	\$1,133 \$3,964	\$526 \$2,241	\$4,581 \$20,477	\$2,290.35 \$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	\$140,680	\$47,275	\$48,965	\$236,920	\$3,433.62
99	G30 Dist	10	1	85	\$739,804.00	\$20,289.00	\$3,986.00	\$62,883,340	\$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
	tot G50			328				\$31,042,200	\$1,149,574	\$405,425	\$32,597,199	\$99,381.70
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
	tot G50 EG			44				\$37,268,160	\$1,166,807	\$138,209	\$38,573,176	\$876,663.09
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
	tot G40		-	30	1.,	. ,	,	\$11,151,141	\$340,767	\$88,352	\$11,580,259	\$386,008.65

Service Cost Detail Sources: Table 11

	Pipe		New	
	Diameter		Business	Replacement
Code	Inches	Pipe Type	\$/ft	\$/ft
0.5P	0.5	Р	\$146.46	\$176.54
1P	1	Р	\$235.19	\$220.66
2P	2	Р	\$230.98	\$196.21
3P	3	Р	\$218.87	\$351.91
4P	4	Р	\$537.03	\$821.46
6P	6	Р	\$1,507.03	\$1,040.13
3P	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
18	1	S	\$673.27	\$410.04
1.25	1.25	S	\$481.15	\$631.07
28	2	S	\$887.66	\$688.76
3S	3	S	\$728.43	\$725.33
48	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
208	20	S	\$11,096.37	\$7,618.61

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

Calculation of Weighted Average	Service Line and	Service Line	Replaceme	nt Cost \$/cu	stomer # New					керіасетепт		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pine Type	last 5 years	Ava I enath		Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
0.5P	SF	0	12	Р	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	Р	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	Р	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	Р	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
18	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	Р	6	108.2	\$218.87	\$351.91	\$23,675	\$38,067	\$142,050	\$228,399
38	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	Р	250	40.7	\$146.46	\$176.54	\$5,961	\$7,185	\$1,490,225	\$1,796,257
0.35	MM Band 1	0	34	S	48	1.1	\$445.65	\$251.60	\$490	\$7,105 \$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	\$235.19 \$673.27	\$220.00 \$410.04	\$11,200 \$1,804	\$10,506 \$1,099	\$285,090	\$173,628
		1			6							
1.25	MM Band 1	1	25	S		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
28	MM Band 1	2	-	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 Tot MM 1	3	0	S	15 1,617	25.9	\$728.43	\$725.33	\$18,844 \$11,220	\$18,764 \$10,334	\$282,666 \$18,142,602	\$281,464 \$16,709,893
	TOURING				1,017				Ψ11,220	ψ10,004	ψ10,142,002	ψ10,703,033
0.5P	MM Band 2	0	12	Р	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	Р	4	739.5	\$230.98	\$196.21	\$170,807	\$145,099	\$683,228	\$580,398
28	MM Band 2	2	0	S	12	93.7	\$887.66	\$688.76	\$83,147	\$64,516	\$997,764	\$774,189
2S 3P	MM Band 2	3	0	Р	1	96.0	\$218.87	\$351.91	\$21,011	\$33,784	\$21,011	\$33,784
38	MM Band 2	3	0	S	11	190.5	\$728.43	\$725.33	\$138,729	\$138,139	\$1,526,018	\$1,519,526
48	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	Р	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	Р	121	135.3	\$230.98	\$196.21	\$31,240	\$26,538	\$3,779,984	\$3,211,074
2S 3P	G10 Band 1	2	0	S	216	5.5	\$887.66	\$688.76	\$4,900	\$3,802	\$1,058,373	\$821,218
	G10 Band 1	3	0	Р	3	27.7	\$218.87	\$351.91	\$6,056	\$9,737	\$18,168	\$29,212
4P	G10 Band 1	4	0	Р	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

					# New					Replacement		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	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	Р	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	Р	166	130.2	\$230.98	\$196.21	\$30,068	\$25,543	\$4,991,369	\$4,240,138
28	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		4=10.01	700	\$8,272	\$7,492	\$18,512,531	\$16,767,761
									· ,			
0.5P	G10 Band 3	0	12	Р	19	64.5	\$146.46	\$176.54	\$9,451	\$11,392	\$179,570	\$216,446
0.75	G10 Band 3	Ö	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	Ö	s S	1,172	1.4	\$673.27	\$410.04	\$909	\$554	\$1,065,250	\$648,769
1.25	G10 Band 3	i	25	Š	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 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	Ö	Р	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
01	tot Band 3				2,784	201.0	ψ1,007.00	ψ1,040.10	\$12,201	\$10,620	\$33,966,647	\$29,565,746
	101 24114 0				2,.0.				+ , 	¥.0,020	φου,σου,σ	Ψ20,000,1.10
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	i	ő	s 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 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
38	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
71	tot Band 4				111	332.3	ψ557.05	Ψ021.40	\$49,654	\$57,597	\$5,511,583	\$6,393,250
	tot Bund 4								Ψ+0,00+	ψ01,001	ψο,στι,σσσ	ψ0,000,200
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
88	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
03	tot Band 5	- 0			16	320.0	\$2,045.20	φ1,012.13	\$677,479	\$491,842	\$10,839,658	\$7,869,474
	tot band 5				10				Ψ011,413	ψ+31,0+ <u>2</u>	ψ10,033,030	Ψ1,003,414
1P	GAC	1	0	Р	1	10.0	\$235.19	\$220.66	\$2,352	\$2,207	\$2,352	\$2,207
18	GAC	1	0	S	1	22.0	\$673.27	\$410.04	\$2,352 \$14,812	\$2,207 \$9,021	\$14,812	\$2,207 \$9,021
6S	GAC	6	0	S	1	116.0	\$1,808.75	\$1,318.32	\$14,612 \$209,815	\$152,926	\$209,815	\$152,926
03	tot GAC	0	U		3	1 10.0	φ1,000.73	φ1,510.32	\$75,660	\$54,718	\$226,979	\$164,153
	IOI GAC				<u> </u>				φ10,000	φυ,110	ΨΖΖΟ,313	φ104,100

					# New					керіасетепт		
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pine Type		Avg Length		Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s
(-/			(-/	(-)	(- /	1000 (0)	4(-)	4.11 (4)	*************************************	4		
0.5P	NGV	0	12	Р	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	i	0	P	5	155.8	\$235.19	\$220.66	\$36,643	\$34,378	\$183,215	\$171,891
1S	NGV	1	Ö	s	5	123.8	\$673.27	\$410.04	\$83,351	\$50,763	\$416,755	\$253,816
1.25	NGV	i	25	Š	ĭ	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
2F 2S	NGV	2	0	S	9	69.4	\$887.66	\$688.76	\$61,639	\$47,827	\$554,751	\$430,445
25 3P		3	0	P								
35	NGV				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	Р	16	251.1	\$537.03	\$821.46	\$134,826	\$206,237	\$2,157,220	\$3,299,788
4S 6P	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	Р	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	Р	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	Р	182	347.0	\$235.19	\$220.66	\$81,621	\$76,576	\$14,855,097	\$13,936,906
18	GEN	1	0	S	36	352.7	\$673.27	\$410.04	\$237,456	\$144,618	\$8,548,419	\$5,206,242
18	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
26	GEN	2	ő	s	43	224.0	\$887.66	\$688.76	\$198,818	\$154,268	\$8,549,164	\$6,633,506
2S 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
46	tot GEN	4	0	г	701	1,900.0	φυστ.υσ	φο <u>2</u> 1.40	\$196,431	\$188,063	\$137,698,278	\$131,832,126
	IOI GEN				701				\$130,431	\$100,003	\$137,090,270	\$131,032,120
0.5P	C20 Di-4	0	12	Р	6	474 E	£146.46	047C E4	¢05 557	£20.00E	0450 040	#404 000
0.5P	G30 Dist	0		S		174.5	\$146.46	\$176.54	\$25,557	\$30,805	\$153,343	\$184,833
0.75	G30 Dist		34		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
18	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	Р	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	Р	46	383.0	\$218.87	\$351.91	\$83,836	\$134,798	\$3,856,466	\$6,200,730
38	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	Р	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	Р	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	Ö	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	Ö	Š	5	1,265.8	\$2,645.28	\$1,812.13	\$3,348,390	\$2,293,792	\$16,741,951	\$11,468,961
108	G30 Dist	10	ő	S	1	73.0	\$3,435.87	\$2,664.50	\$250,818	\$194,508	\$250,818	\$194,508
100	tot G30 Dist	10			440	75.0	ψ5,455.07	Ψ2,004.00	\$366,730	\$303,266	\$161,361,230	\$133,436,839
	000 Diot				770				7000,100	7000,200	ψ.01,001,200	Ç.30,400,000
2P	G30 Tran	2	0	Р	3	1,363.0	\$230.98	\$196.21	\$314,821	\$267,438	\$944,462	\$802,315
25				S								
2S 4S	G30 Tran	2	0		5	1,484.6	\$887.66	\$688.76	\$1,317,818	\$1,022,527	\$6,589,090	\$5,112,637
45	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	11	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

# New												
		Pipe			Customers		New		Service Line	Service Line		Replacement
		Diameter	Pipe frac	Pipe Type	last 5 years	Avg Length	Business	Replacement	CAPEX	CAPEX	Service Line	Service Line
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/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	Р	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	Р	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	Р	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	Р	3	284.3	\$537.03	\$821.46	\$152,695	\$233,569	\$458,084	\$700,708
48	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	Р	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
48	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
88	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	Р	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
88	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	\$ 1,61

	⊬ıpe Diameter		new Business	Replacement	avg labor and nonlabor			
Code	Inches	Pipe Type	\$/ft	\$/ft	\$/meter	avg \$/meter	avg \$/regulator	Total
0.5PS10	0.5	Р	\$146.46	\$176.54	\$247	\$119	\$29	\$395
0.5P30	0.5	Р	\$146.46	\$176.54	\$259	\$202	\$29	\$491
0.5PS40	0.5	Р	\$146.46	\$176.54	\$155	\$615	\$263	\$1,032
1PS10	1	Р	\$235.19	\$220.66	\$247	\$119	\$29	\$395
1P30	1	Р	\$235.19	\$220.66	\$259	\$202	\$29	\$491
1P31	1	Р	\$235.19	\$220.66	\$271	\$203	\$320	\$794
1PS40	1	Р	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS41	1	Р	\$235.19	\$220.66	\$1,652	\$573	\$494	\$2,720
1PS50	1	Р	\$235.19	\$220.66	\$155	\$615	\$263	\$1,032
1PS60	1	Р	\$235.19	\$220.66	\$1,461	\$536	\$263	\$2,260
1PS80	1	Р	\$235.19	\$220.66	\$1,461	\$655	\$311	\$2,427
2P30	2	Р	\$230.98	\$196.21	\$259	\$202	\$29	\$491
0.75\$10	0.75	S	\$445.65	\$251.60	\$247	\$119	\$29	\$395
0.7530	0.75	S	\$445.65	\$251.60	\$259	\$202	\$29	\$491
0.75\$40	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

		Pipe			# New Customers		New		Meter and Service Line	Replacement Service Line		Replacement	Meter & Regulator
		Diameter	Pipe frac	Pipe Type	•		Business	Replacement	CAPEX	CAPEX	Service Line	Service Line	CAPEX/
Code (1)	Rate	Inches	(2)	(3)	(4)	feet (5)	\$/ft (6)	\$/ft (6)	\$/customer	\$/customer	CAPEX \$'s	CAPEX \$'s	Customer
0.5PS10	SF	0	12	Р	23,872	25.2	\$146.46	\$176.54	\$0	\$4,450	\$0	\$106,241,859	\$395.24
0.5P30	SF	0	34	Р	45,742	25.2	\$146.46	\$176.54	\$0	\$4,450	\$0	\$203,573,857	\$490.68
0.5PS40	SF	1	0	Р	2,106	25.2	\$146.46	\$176.54	\$0	\$4,450	\$0	\$9,372,711	\$1,032.45
1PS10	SF	1	0	Р	6,956	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$49,730,181	\$395.24
1P30	SF	1	0	Р	15,390	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$110,026,953	\$490.68
1P31	SF	1	0	Р	29	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$207,328	\$793.71
1PS40	SF	1	0	Р	3,905	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$27,917,820	\$1,032.45
1PS41	SF	1	0	Р	44	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$314,567	\$2,719.56
1PS50	SF	1	0	Р	486	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$3,474,535	\$1,032.45
1PS60	SF	1	0	Р	454	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$3,245,759	\$2,260.15
1PS80	SF	1	0	Р	125	32.4	\$235.19	\$220.66	\$0	\$7,149	\$0	\$893,656	\$2,426.78
2P30	SF	1	0	Р	27	97.7	\$230.98	\$196.21	\$0	\$19,178	\$0	\$517,802	\$490.68
0.75S10	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$0	\$2,327	\$0	\$121,020	\$395.24
0.7530	SF	0	34	S	54	9.3	\$445.65	\$251.60	\$0	\$2,327	\$0	\$125,675	\$490.68
0.75\$40	SF	0	34	S	52	9.3	\$445.65	\$251.60	\$0	\$2,327	\$0	\$121,020	\$1,032.45
1S30	SF	1	0	Š	60	2.5	\$673.27	\$410.04	\$0	\$1,021	\$0	\$61,260	\$490.68
1SS40	SF	1	Ő	S	54	2.5	\$673.27	\$410.04	\$0	\$1,021	\$0	\$55,134	\$1,032.45
.55.10	Tot SF	•			99,408	2.0	ψ010. <u>Σ</u> 1	ψ110.01	\$0	\$5,191	\$0	\$516,001,139	\$509
					,					,		Service Cost for	

CAPEX (\$509)

Average

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.

2012-2010) within all the other fate classes cover the entire population that service line history could be matched by premise as every new large new customers are adoed to Socialoas 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 07/2024

WATER HEATING \$ SPACE HEATING \$ COOKTOP & OVEN \$ DRYER STUB \$ Total \$ -

	⊬ipe Diameter		new Business	Replacement	avg iapor and nonlabor			
Code	Inches	Pipe Type	\$/ft	\$/ft	\$/meter	avg \$/meter	avg \$/regulator	Total
0.5PM10	0.5	Р	\$146.46	\$176.54	\$205	\$118	\$7	\$330
0.5P30	0.5	Р	\$146.46	\$176.54	\$259	\$201	\$29	\$489
0.5PS40	0.5	Р	\$146.46	\$176.54	\$155	\$645	\$263	\$1,063
1PM10	1	Р	\$235.19	\$220.66	\$205	\$118	\$7	\$330
1P30	1	Р	\$235.19	\$220.66	\$259	\$201	\$29	\$489
1P31	1	Р	\$235.19	\$220.66	\$271	\$201	\$320	\$792
1PS40	1	Р	\$235.19	\$220.66	\$155	\$645	\$263	\$1,063
1PS41	1	Р	\$235.19	\$220.66	\$1,652	\$603	\$494	\$2,750
2PM10	1	Р	\$235.19	\$220.66	\$205	\$118	\$7	\$330
2P30	1	Р	\$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	Pipe Type (3)	# New Customers last 5 years (4)	Avg Length feet (5)	New Business \$/ft (6)	Replacement \$/ft (6)	Meter and Service Line CAPEX \$/customer	Replacement Service Line CAPEX \$/customer	Service Line CAPEX \$'s	Replacement Service Line CAPEX \$'s	Meter & Regulator CAPEX/ Customer
0.5PM10	MF	0	12	P	670	19.9	\$146.46	\$176.54	\$0	\$3,510	\$0	\$2,351,393	\$329.93
0.5P30	MF	0	12	Р	744	19.9	\$146.46	\$176.54	\$0	\$3,510	\$0	\$2,611,099	\$489.40
0.5PS40	MF	1	12	Р	46	19.9	\$146.46	\$176.54	\$0	\$3,510	\$0	\$161,439	\$1,062.66
1PM10	MF	1	0	Р	3,330	24.2	\$235.19	\$220.66	\$0	\$5,349	\$0	\$17,811,164	\$329.93
1P30	MF	1	0	Р	2,180	24.2	\$235.19	\$220.66	\$0	\$5,349	\$0	\$11,660,161	\$489.40
1PS40	MF	1	0	Р	152	24.2	\$235.19	\$220.66	\$0	\$5,349	\$0	\$813,002	\$1,062.66
2PM10	MF	1	0	Р	452	39.9	\$235.19	\$220.66	\$0	\$8,798	\$0	\$3,976,492	\$329.93
2P30	MF	1	0	Р	112	39.9	\$235.19	\$220.66	\$0	\$8,798	\$0	\$985,325	\$489.40
1SM10	MF	1	0	S	56	8.3	\$673.27	\$410.04	\$0	\$3,416	\$0	\$191,277	\$2,290.35
1S30	MF	1	0	S	72	8.3	\$673.27	\$410.04	\$0	\$3,416	\$0	\$245,927	\$489.40
1SS40	MF	1	0	S	26	8.3	\$673.27	\$410.04	\$0	\$3,416	\$0	\$88,807	\$1,062.66
2SM10	MF	2	0	S	103	1.9	\$887.66	\$688.76	\$0	\$1,295	\$0	\$133,371	\$329.93
	Tot MF				7,943				\$0	\$5,165	\$0	\$41,029,457	\$427
												Service Cost for	

CAPEX

(\$427)

Average

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 07/2024

WATER HEATING	\$	-
SPACE HEATING	\$	-
COOKTOP & OVEN	. \$	-
DRYER STUB	\$	-
Total	\$	-

	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
# of Meters											
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	_
Total # meters			8	68	4	5	11	13	2	1	_
Exclusive Usa Meter Cost Investment in Meters: \$ Simeter	\$0 \$2,009,022 \$11,375,234 \$13,384,256 88%	\$0 \$283,215 \$1,603,586 \$1,886,801 12%	\$0 \$2,292,237 \$12,978,820 \$15,271,057	\$13,184 \$22,158,291 \$98,639,032 \$120,810,507	\$26,367 \$1,528,158 \$0 \$1,554,525	\$13,184 \$0 \$10,383,056 \$10,396,240	\$0 \$764,079 \$25,957,640 \$26,721,719	\$79,102 \$5,348,553 \$0 \$5,427,655	\$0 \$0 \$5,191,528 \$5,191,528	\$0 \$764,079 \$0 \$764,079	_
Total Investment \$'s 2021 \$s 2024 Number of Customers	\$17,789,737 490	\$2,507,849 17	\$20,297,586 507	\$160,575,762 367	\$2,066,203 29	\$13,818,203	\$35,517,278 1	\$7,214,189 1	\$6,900,340 1	\$1,015,579	_Tab 'cust 2"
Exclusive Use Cost Per Customer 2021\$s	\$36,305.59	\$147,520.52	\$40,034.69	\$437,536.14	\$71,248.39	\$13,818,202.97	\$35,517,278.40	\$7,214,188.70	\$6,900,339.96	\$1,015,578.62	=

Note : This is part of Exclusive Use Facilities Costs

Exclusive Use Meter Cost \$/meter	2021 \$s	TURBINE METERS 4"-12"	ROTARY METERS 4"-6"	ULTRASUNIC METERS 4" - 16"
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
TOTAL		\$764,079	\$13,184	\$2,595,764

SCG 2027 TCAP LRMC Customer Cost Allocation of Customer-Related Distribution O&M

			Core												
				Residential					00.0		Non	-Residential			
		Single	Multi		r Meter	Residential				G-10			Gas Air	Natrual Gas	Gas
		Family	Family	Small	Large	Total	Very Small	Small	Medium	Large	Very Large	Total	Conditioning	Vehicle	Engine
1 2024 Number of Customers		3,861,103	1,807,189	120,098	55	5,788,445	86,340	64,026	47,978	2,154	317	200,815	4	368	571
Customer Services O&M Cost	ts														
2 Total Cost	2021 M\$s	\$85,491	\$40,014	\$2,659	\$1	\$128,165	\$4,252	\$4,782	\$12,338	\$1,169	\$249	\$22,789	\$1	\$84	\$128
3 Cost Per Customer:	2021 \$s	22.14	22.14	22.14	22.14	22.14	49.24	74.68	257.15	542.59	785.70	113.48	213.30	228.05	223.92
4	2027 \$s	25.35	25.35	25.35	25.35	25.35	56.38	85.50	294.41	621.19	899.53	129.92	244.20	261.09	256.36
						84.6%	2.8%	3.2%	8.1%	0.8%	0.2%		0.0%	0.1%	0.1%
Customer Accounts O&M Costs															
5 Total Cost:	2021 M\$s	\$53,576	\$25.076	\$1.666	\$1	\$80.319	\$1,111	\$687	\$5,977	\$163	\$118	\$8,057	S4	\$285	\$49
6 Cost Per Customer:	2021 \$s	13.88	13.88	13.88	13.88	13.88	12.87	10.74	124.59	75.86	371.03	40.12	1,079.28	774.24	84.97
7	2027\$s	15.89	15.89	15.89	15.89	15.89	14.74	12.29	142.64	86.85	424.79	45.94	1,235.64	886.41	97.28
9 segmentation by number of cus	tomers	66.70%	31.22%	2.07%	0.001%										
Meters, Reg & MSAs O&M Co	sts														
10 Total Cost	2021 M\$s	\$5,590	\$2,196	\$561	\$4	\$8,351	\$3	\$4	\$5	\$1	\$0	\$13	\$0	\$0	\$0
11 Cost Per Customer:	2021 \$s	1.45	1.22	4.67	64.09	1.44	0.03	0.06	0.11	0.39	0.57	0.06			
12	2027\$s	1.66	1.39	5.35	73.38	1.65	0.04	0.06	0.13	0.44	0.65	0.07	0.65	0.65	0.65
Service Lines O&M Costs 13 Total Costs	2021M \$s	\$45.310	ı												
	2021M \$S 2027 \$s	\$45,310 \$51.874.422													
1/ I							10 707 000	0.070.400	6,630,225	564,279	115,761	27,021,296	250	62,904	627,475
14 Total Service Line Footage		233 579 752	58 907 774	11 635 093	I 13 796										
14 15 Total Service Line Footage 16 Percent of Total Footage		233,579,752 70.35%	58,907,774 17,74%	11,635,093 3.50%	13,796 0.00%	304,136,415 91.60%	12,737,629 3,84%	6,973,402 2,10%	2.00%	0.17%	0.03%	8.14%	0.00%	0.02%	0.19%
15 Total Service Line Footage	2027 \$s				13,796 0.00% \$2,155										

Source: Costs from Rick Ramirez, 06/15/2022 and Service Footage from Ken Parris, 2/15/2025

	Calculation of Customer Service & Information Cost (CSI) Costs Accounts (FERC Accounts 907 to 910):															
5	Total Cost:	2021 M\$s	\$13,252	\$6,202	\$412	\$0	\$19,866	\$831.16	\$616.35	\$461.86	\$12,214.74	\$1,797.62	\$15,922	\$0	\$3,053	\$0
3	Cost Per Customer:	2021 \$s	3.43	3.43	3.43	3.43	3.43	9.63	9.63	9.63	5,670.73	5,670.73	79.29	0.00	8,294.95	0.00
4	1	2024 \$s	3.93	3.93	3.93	3.93	3.93	11.02	11.02	11.02	6,492.29	6,492.29	90.77	0.00	9,496.70	0.00
							46.5%	1.9%	1.4%	1.1%	28.6%	4.2%	37	.3% 0.0%	7.1%	0.0%

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

						2021 Costs in			
				GRC Exclusion		Transport			
139	Calculation of Customer Service & Information Costs (CSI Cos	ts):	2021 Costs M\$	Items	Other Adjustments	Rates		Exclusions	2021 \$
	907 Cus Svc-Supervision + Payroll Taxes	NON-DSM CUST. INFO	\$274	\$0	\$0	\$274	FERC Form 2	Self Generation (acct 908)	\$10,876,259
141	908 Cus Svc-Cust Assist Exp (PBR Ex DAP, DSM &Self-Gen)	NON-DSM CUST. INFO	\$267,147	(\$228,960)	\$0	\$38,187	FERC Form 2	Energy Efficiency (acct 908)	\$115,795,522
142	909 Cus Svc-Info & Instruction Exp	NON-DSM CUST. INFO	\$1,835	\$0	\$0	\$1,835	FERC Form 2	Low Income Energy Efficiency (acct 908)	\$102,073,863
143	910 Cus Svc-Misc CSI Exp	NON-DSM CUST. INFO	\$2,436	\$0	\$0	\$2,436	FERC Form 2	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	CS&I O&M, 2021 \$000's					\$42,732			\$228,959,861

												Total Retail	
		Residential	CCI	G-AC	G-GEN	NGV	Total Core	NCCI	EG Tier 1	EG Tier 2	EOR	NonCore	Long Beach
1	Calculation of CSI Cost Allocator:												
2	Energy Markets Costs:												
3	Mgmnt estimate - FTE		0.3	0.0	0.0	0.0	0	0.7	0.2	3.3	2.2	6.4	0.6
4	Energy Markets	0.0%	2.8%	0.0%	0.0%	0.0%	2.8%	7.3%	2.4%	36.1%	23.5%	69.3%	6.5%
5	Energy Markets \$884	\$0	\$25	\$0	\$0	\$0	\$25	\$65	\$21	\$319	\$207	\$613	\$57
6	Large C&I:												
7	# Large C&I Customers	0	2,471	0	0	0	2,471	507	0	0	0	507	0
8	% Large C&I only	0.0%	83.0%	0.0%	0.0%	0.0%	83.0%	17.0%	0.0%	0.0%	0.0%	17.0%	0.0%
9	Large C&I \$5,719	\$0	\$4,745	\$0	\$0	\$0	\$4,745	\$974	\$0	\$0	\$0	\$974	\$0
10	NGV \$2,553	\$0	\$0	\$0	\$0	\$2,553	\$2,553	\$0	\$0	\$0	\$0	\$0	\$0
11	Residential \$10,728	\$10,728	\$0	\$0	\$0	\$0	\$10,728	\$0	\$0	\$0	\$0	\$0	\$0
12	Small Business												
13	# G10, G-AC, G-GE Customers only	0	200,815	0	0	0	200,815	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	Small Business \$1,617	\$0	\$1,617	\$0	\$0	\$0	\$1,617	\$0	\$0	\$0	\$0	\$0	\$0
16	Econ Development												
17	# Large C&I Customers	0	2,471	0	0	0	2,471	507	0	0	0	507	0
18	% Large C&I only	0.0%	83.0%	0.0%	0.0%	0.0%	83.0%	17.0%	0.0%	0.0%	0.0%	17.0%	0.0%
19	Econ Development \$8,353	\$0	\$6,931	\$0	\$0	\$0	\$6,931	\$1,422	\$0	\$0	\$0	\$1,422	\$0
20		\$5,889	\$0	\$0	\$0	\$0	\$5,889	\$0	\$0	\$0	\$0	\$0	\$0
21	Total \$35,743	\$16,617	\$13,318	\$0	\$0	\$2,553	\$32,488	\$2,460	\$21	\$319	\$207	\$3,008	\$57
22	Allocator %	46.5%	37.3%	0.0%	0.0%	7.1%	90.9%	6.9%	0.1%	0.9%	0.6%	8.4%	0.2%

SCG 2027 CAP LRMC Customer Cost Allocation of Customer-Related Distribution O&M

2024 Number of Customers							Noncore						
	l l						n-Residential						Total
	D:	G-30		Small EG	EG	EOR			lesale	.,	Intl		Over All
	Distribution 490	Transmission 17	Total 507	326	G-50 41	G-40 29	LB 1	SDG&E	SWG I 1 I	Vernon 1	ECOGAS		5.991.111
	490	17	507	320	41	29			<u> </u>	- '	· · ·		5,991,111
Customer Services O&M Costs													151,574
Total Cost 2021 M			\$329	\$69	\$9	\$1	\$0	\$0	\$0	\$0	\$0		\$151,574
Cost Per Customer: 2021 \$			648.54	210.55	210.55	43.13	0.00	0.00	0.00	0.00	0.00		
2027 \$			742.50	241.06	241.06	49.38	0.00	0.00	0.00	0.00	0.00		
			0.2%	Total EG	\$77 0.1%	0.0%							
			0.2%		0.1%	0.0%							
Customer Accounts O&M Costs													
Total Cost: 2021 N	\$s		\$898	\$569	\$72	\$51	\$7	\$5	\$11	\$4	\$3		\$90,332
Cost Per Customer: 2021 \$	i l		1,770.87	1,744.37	1,744.37	1,755.14	6,530.71	5,087.00	10,861.85	3,643.28	2,921.42		
2027\$s			2,027.43	1,997.09	1,997.09	2,009.42	7,476.87	5,823.99	12,435.50	4,171.11	3,344.67		
segmentation by number of customers			E	G O&M cost									
				89%	11%	note: split EG	costs by # of cu	stomers					
Meters, Reg & MSAs O&M Costs													
Total Cost 2021 N	Ss		\$62	\$513	\$61	\$42	\$8	\$8	\$17	\$1	\$1		\$9,077
Cost Per Customer: 2021 \$			122.29	1,573.62	1.487.80	1.448.28	8.000.00	8.000.00	17.000.00	1.000.00	1.000.00		ψο,στ.
2027\$		140.00	140.00	1,801.60	1,703.36	1,658.10	9,159.02	9,159.02	19,462.93	1,144.88	1,144.88		
		•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,					,	, , , ,		
Service Lines O&M Costs													
	90												
Total Costs 2021M													
Total Costs 2021M 2027 \$		16.542	121.280	46.832	16.273	11.668	0	0	0	0	0	1	332.044.39
Total Costs 2021M 2027 \$ Total Service Line Footage Percent of Total Footage	104,737 0.03%	16,542 0.00%	121,280 0.04%	46,832 0.01%	16,273 0.00%	11,668 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%		
Total Costs 2021M 2027 \$ Total Service Line Footage	104,737 0.03%												332,044,39 100.00% \$51,874,42

\$382 9,309.42 10,658.15 0.9%

\$26 78.55 89.93 0.1%

\$248 8,546.13 9,784.27 0.6%

\$69 68,590.22 78,527.43 0.2%

\$65 64,946.55 74,355.88 0.2%

\$75 75,148.83 86,036.24 0.2%

\$2,941 5,801.69 6,642.23 6.9%

\$55 55,473.00 63,509.82 0.1%

\$30 30,252.33 34,635.22 0.1%

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 <u>CS&I O&M, 2021 \$000's</u>

149										
					Total				SYSTEM	
		SDG&E	South West Gas	Vernon	Whole sale	DGN	UBS	Total Noncore	TOTAL	Sources
1	Calculation of CSI Cost Allocator:									
2	Energy Markets Costs:									
3	Mgmnt estimate - FTE	0.6	0.7	0.5	2.3	0.3	0.0	8.9	9.2	
4	Energy Markets	6.1%	7.1%	5.3%	25.0%	2.9%	0.0%	97.2%	100.0%	
5	Energy Markets	\$54	\$63	\$46	\$221	\$25	\$0	\$859	\$884	-
6	Large C&I:									
7	# Large C&I Customers	0	0	0	0	0	0	507	2,978	2021 Customer Count
8	% Large C&I only	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.0%	100.0%	
9	Large C&I	\$0	\$0	\$0	\$0	\$0	\$0	\$974	\$5,719	
10	NGV	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,553	
11	Residential	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,728	
12	Small Business									
13	# G10, G-AC, G-GE Customers only	0	0	0	0	0	0	0	200,815	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	Small Business	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,617	_
16	Econ Development									
17	# Large C&I Customers	0	0	0	0	0	0	507	2,978	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%	17.0%	100.0%	
19	Econ Development	\$0	\$0	\$0	\$0	\$0	\$0	\$1,422	\$8,353	
20	Other Residential	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,889	
21	Total	\$54	\$63	\$46	\$221	\$25	\$0	\$3,255	\$35,743	\$35,743
22	Allocator %	0.2%	0.2%	0.1%	0.6%	0.1%	0.0%	9.1%	100.0%	
	-						100.6%			_

SCG 2027 CAP LRMC Customer Cost Weighted Average RECC and Replacement Factors

S10

<u>Line</u> 1. 2.	<u>CUSTOMER CLASS</u>	<u>RATE</u>	Excluded AVERAGE LABOR COST	AVERAGE METER COST	AVERAGE REGULATOR COST	AVERAGE TOTAL COST	WEIGHTED REPLACEMENT Percent	WEIGHTED RECC Percent	WEIGHTED <u>PVRR</u>
3.	SINGLE FAMILY	GR	257.00	202.42	46.32	505.73	1.88%	8.57%	121.49%
4.	MULTIPLE FAMILY	GR	217.60	141.87	14.83	374.31	1.64%	8.57%	121.52%
5.	MASTER METERED BAND 1	GM,GS	841.28	504.51	295.51	1641.30	1.78%	8.48%	121.62%
6.	MASTER METERED BAND 2	GM,GS	17976.74	2677.02	1860.74	22514.50	0.73%	8.40%	121.89%
7.	RESIDENTIAL WEIGHTED AVERAGE		170.67	146.45	32.51	349.62	1.96%	8.58%	121.46%
8.	SMALL CORE BAND 1	G-10	340.12	263.02	104.02	707.17	1.93%	8.54%	121.53%
9.	SMALL CORE BAND 2	G-10	508.71	451.10	206.13	1165.95	2.08%	8.54%	121.51%
10.	SMALL CORE BAND 3	G-10	1159.64	728.69	434.08	2322.41	1.82%	8.49%	121.61%
11.	SMALL CORE BAND 4	G-10	3620.77	2445.16	1909.29	7975.21	1.95%	8.47%	121.62%
12.	SMALL CORE BAND 5	G-10	4897.05	3921.86	2931.85	11750.77	2.09%	8.48%	121.59%
13.	G10 AVERAGE		430.93	901.17	194.53	1,526.63	2.75%	8.68%	121.21%
14.	GAS COOLING	GAC	2605.71	1410.99	1070.05	5086.75	1.75%	8.46%	121.67%
15.	Natural Gas Vehicles	NGV	79940.63	4276.83	2079.11	86296.57	0.27%	8.37%	121.99%
16.	GAS ENGINES	GENG	1844.30	800.81	585.81	3230.92	1.54%	8.45%	121.71%
17.	NONCORE COMM/IND TRANSMISSION	G-30	275104.17	9282.22	2850.56	287236.96	0.16%	8.37%	122.02%
18.	NONCORE COMM/IND DISTRIBUTION	G-30	124688.07	6150.18	2799.23	133637.47	0.25%	8.37%	122.00%
19.	NONCORE COMM/IND TOTAL	G-30	129,731.60	6,255.20	2,800.95	138787.75	0.24%	8.37%	122.00%
20.	COGENERATION	G-50	94640.85	3504.80	1236.05	99381.70	0.18%	8.37%	122.01%
21.	EOR	G-40	371704.69	11358.89	2945.07	386008.65	0.14%	8.37%	122.02%
22.	SYSTEM AVERAGE		197.86	172.66	38.38	408.89	1.97%	8.58%	121.46%
22.	INVERSE OF BOOK LIFE		0.00%	4.00%	3.03%				
23.	RECC		8.35%	8.97%	8.04%				
22	PVRR		122.07%	120.62%	122.070/				
23.	PVRR		122.07%	120.62%	122.07%				

SCG 2027 CAP LRMC Customer Cost Weighted Average RECC and Replacement Factors

Weighted Average RECC and Replacement Factor for Exclusive Use Facilities

<u>Line</u> 1. 2.	CUSTOMER CLASS	<u>RATE</u>		GEMs Dollars	AVERAGE TOTAL COST Dollars	WEIGHTED REPLACEMENT Percent	WEIGHTED RECC
3. 4. 5. 6. 7. 8. 9. 10. 11.	NONCORE COMM/IND TRANSMISSION NONCORE COMM/IND DISTRIBUTION NONCORE COMM/IND TOTAL COGENERATION EOR LONG BEACH SAN DIEGO GAS & ELECTRIC SOUTHWEST GAS VERNON DGN	G-30 G-30 G-30 G-50 G-40		2,507,849 17,789,737 20,297,586 160,575,762 2,066,203 13,818,203 35,517,278 7,214,189 6,900,340 1,015,579	2,507,849 17,789,737 20,297,586 160,575,762 2,066,203 13,818,203 35,517,278 7,214,189 6,900,340 1,015,579	4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00% 4.00%	8.97% 8.97% 8.97% 8.97% 8.97% 8.97% 8.97% 8.97% 8.97% 8.97%
13.	SYSTEM TOTAL			267,702,726	267,702,726	4.00%	8.97%
14.	INVERSE OF BOOK LIFE			4.00%			
15.	RECC factors			8.97%			

Source:Meter cost detail

SOUTHERN CALIFORNIA GAS

2024 Economic Assumptions Update LEVELIZED ANNUAL CAPITAL COST AND RECC FACTORS

	utility socal		ıth ROF		-			Tax Rate		21.00%			Rate ===>			Rate ===>		1.303%	
FERC			Fed	State			Normlzd	Г	Depreciat	ion Metho	od		LACC Comp					PVCC	Sum of
Account	Account Name	Book Life	Tax Life	Tax Life	Percent Salvage	Federal Taxes ?	State Taxes ?	Feder	al Tax	State	Тах	Book Depr	Return on Capital	Income Taxes	Property Taxes	Total LACC	RECC Factors	Factors	Rev Req
GAS UN	NDERGROUND STORAGE	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	4.13	1.07	0.73	9.40	6.97	119.28	228.01
G-353	Lines	54	15	22	-40%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.59	4.73	1.19	0.86	9.38	6.87	119.94	288.81
G-354 G-356	Compressor Station Equipment Purification Equipment	41 39	15 15	22 22	-15% -30%	TRUE TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	2.80 3.33	4.77 4.45	1.21 1.14	0.87 0.79	9.65 9.72	7.32 7.43	119.70 119.56	283.41 258.93
GAS TF	RANSMISSION PLANT																		
G-365.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	none	0%	0.00	7.67	2.23	1.30	11.21	n/a	146.06	1153.21
G-366	Structures & Improvements	47	39	45	-40%	TRUE	FALSE	sl	0%	db/sl	0%	2.98	5.00	1.50	0.82	10.30	7.67	130.04	294.92
G-367	Mains	64	15	22	-60%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.50	4.72	1.19	0.86	9.28	6.69	119.90	271.07
G-368	Compressor Station Equipment	50	15	22	-15% -50%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.30	4.99	1.25	0.92	9.46	6.99	120.21	318.28
G-369 G-371	Measuring & Regulating Equipment Other Equipment	46 21	15 15	22 22	-50% -10%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	3.26 5.24	4.34 4.34	1.11 1.18	0.77 0.73	9.49 11.49	7.09 9.62	119.54 118.07	252.59 207.38
GAS DI	STRIBUTION PLANT															_			
G-374.1	Land	0	0	0	0%	FALSE	FALSE	none	0%	db/sl	0%	0.00	7.67	2.23	1.30	11.21	n/a	146.06	1153.21
G-374.2	Land Rights	40	40	40	0%	FALSE	FALSE	sl	0%	db/sl	0%	2.50	5.50	1.60	0.92	10.51	8.01	129.92	323.23
G-375	Structures & Improvements	40	39	45	-10%	TRUE	FALSE	sl	0%	db/sl	0%	2.75	5.31	1.58	0.88	10.52	8.01	129.98	310.59
G-376	Mains	68	20	35	-80%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.65	4.71	1.30	0.83	9.49	6.80	122.83	234.45
G-378 G-380	Measuring & Regulating Equipment Services	47 67	20 20	35 35	-95% -115%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	4.15 3.21	3.80 4.27	1.10 1.21	0.63 0.74	9.67 9.43	7.21 6.77	122.15 122.02	193.11 149.84
G-381	Meters	25	20	35	5%	TRUE	FALSE	db/sl	150%	db/si	200%	3.80	4.27	1.44	0.74	10.99	8.97	122.02	235.78
G-382	Meter & Regulator Installations	30	20	35	-10%	TRUE	FALSE	db/sl	150%	db/sl	200%	3.67	4.70	1.33	0.81	10.51	8.35	122.07	249.14
G-383	House Regulators	33	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	2.88	5.07	1.42	0.89	10.26	8.04	122.07	274.07
G-387	Other Equipment	21	20	35	5%	TRUE	FALSE	db/sl	150%	db/sl	200%	4.52	4.84	1.46	0.81	11.64	9.75	119.59	216.63
GAS GE	ENERAL PLANT																		
G-390	Structures & Improvements	33	39	45	-15%	TRUE	FALSE	sl	0%	db/sl	0%	3.48	5.05	1.53	0.81	10.88	8.52	129.38	276.54
G-391.1	Office Furniture & Equipment	14	7	10	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	7.14	4.03	1.04	0.71	12.93	11.40	108.64	169.65
G-391.2	Computer Equipment	5	5	6	0%	TRUE	FALSE	db/sl	200%	db/sl	200%	20.00	3.98	1.16	0.56	25.70	24.62	103.50	126.80
G-393	Stores Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.71	1.42	0.77	11.91	10.04	119.81	210.55
G-394.1 G-394.3	Shop & Garage Equipment Large Portable Tools	29 24	20 20	35 35	0% 0%	TRUE	FALSE FALSE	db/sl db/sl	150% 150%	db/sl db/sl	200% 200%	3.45 4.17	4.88 4.78	1.40 1.40	0.85 0.81	10.57 11.16	8.44 9.16	121.61 120.73	251.63 228.83
G-394.3 G-395	Laboratory Equipment	25	20	35	0%	TRUE	FALSE	db/si	150%	db/si	200%	4.00	4.80	1.40	0.81	11.01	8.99	120.73	233.39
G-397	Communications Equipment	15	7	10	0%	TRUE	FALSE	db/si	200%	db/si	200%	6.67	4.05	1.03	0.73	12.47	10.91	108.90	174.21
G-398	Miscellaneous Equipment	20	20	35	0%	TRUE	FALSE	db/sl	150%	db/sl	200%	5.00	4.71	1.42	0.77	11.91	10.04	119.81	210.55
		10	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	10.00	3.71	0.81	0.67	15.19	13.87	103.47	148.05
		15	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	6.67	3.82	0.79	0.73	12.01	10.51	104.88	170.84
		20	3	3	0%	TRUE	FALSE	sl	0%	db/sl	0%	5.00	3.96	0.80	0.77	10.54	8.88	106.01	193.63
		3	3 3	3 3	0% 0%	TRUE	FALSE FALSE	sl sl	0% 0%	db/sl db/sl	0% 0%	33.33 16.67	3.96 3.71	1.15 0.90	0.46 0.59	38.90 21.86	38.06 20.74	100.86 102.08	116.14 129.82
		_ 0	<u> </u>	ა	U 70	I INUE	PALSE	51	U 70	ub/SI	U 70	10.07	3.71	0.90	0.59	21.00	20.74	102.08	129.62

	Calculatio	Tab on of Marg	le 1 inal Customer Co	osts	
Customer Class	CAPEX \$/customer	2027 \$/C	Annualized CAPEX (\$/customer/year)	O&M and Loaders (\$/customer/ year)	Marginal Unit Cost 2024 (\$/customer/ year)
Residential Core C/I ¹⁴ Gas A/C ¹⁵ Gas Engine ¹⁶ NGV	\$0.00 \$16,092.55 \$269,069.90 \$229,873.20	NA 6.98% 6.79% 7.58%	\$0.00 \$1,123.24 \$18,279.37 \$17,423.40	\$106.32 \$555.92 \$1,015.02 \$20,617.22	\$106.32 \$1,679.16 \$19,294.39 \$38,040.62
Noncore C/I ¹⁷ Small EG ¹⁸ Large EG ¹⁹ EOR ²⁰	\$755,145.54 \$379,253.54 \$2,219,865.48 \$944,927.05	7.28% 7.33% 8.05% 7.81%	\$54,981.81 \$27,807.46 \$178,778.01 \$73,831.43	\$18,527.91 \$8,022.30 \$28,327.74 \$26,207.01	\$73,509.72 \$35,829.76 \$207,105.74 \$100,038.45
Long Beach ²¹ SDG&E ²² Southwest Gas ²³ Vernon ²⁴ Ecogas ²⁵	\$13,818,202.97 \$35,517,278.40 \$7,214,188.70 \$6,900,339.96 \$1,015,578.62	8.97% 8.97% 8.97% 8.97% 8.97%	\$1,239,598.65 \$3,186,171.93 \$647,167.99 \$619,013.35 \$91,105.18	\$183,864.62 \$172,611.25 \$227,861.02 \$132,978.03 \$75,592.79	\$1,423,463.27 \$3,358,783.18 \$875,029.00 \$751,991.38 \$166,697.98

¹⁴ Core C&I are the Core Commercial & Industrial customers

 $^{^{15}}$ Gas A/C are the Gas Air Conditioning for Commercial & Industrial customers, $^{\text{Chapter } 12 \text{ proposed to be eliminated}}$

¹⁶ Gas Engine are Core Gas Engine Water Pumping Service for Commercial and Industrial

¹⁷ Noncore C/I are Noncore Commercial & Industrial customers

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

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

²⁰EOR are Enhanced Oil Refinery customers

²¹ Long Beach is the Wholesale - City of Long Beach customer

²² SDG&E is the Wholesale – San Diego Gas & Electric customer

²³SW Gas is the Wholesale – Southwest Gas Corporation's service territory in southern California

²⁴Vernon is the Wholesale – City of Vernon customer

²⁵Ecogas is the Wholesale – ECOGAS Mexico, S. de R.L. de C.V. customer NA Not applicable

SoCalGas 2027 CAP



Workpapers to the Prepared Written Testimony of Marjorie Schmidt-Pines

General Information about the Distribution Model

This model estimates Demand-related Long Run Marginal Costs (LRMC) for SoCalGas' Distribution Systems, separately for High Pressure and Medium Pressure Distribution Systems.

This workbook contains multiples sheets. These sheets are categorized into:

a) Input/Calculations Sheets,

b) Output/Calculation Sheets, and

Below is a description of each of these sheets

Input/Calculation Sheets:

HPD Peak Month Demand: Cost Driver for High Pressure Distribution Mains. It contains 3 Tables:

- 1: Peak Month Demand by Customer Class: Historical Data,
- 2: Peak Month Demand by Customer Class: Forecast Data,
- 3: Number of customers by class: Historical Data,
- 4: Number of customers by class: Forecasted Data, and
- 5: Level of usage of High Pressure Distribution Service by Customer Class.

MPD_Pea contains 3 Tables:

- 1: Peak Day Demand by Customer Class: Historical Data,
- 2: Peak Day Demand by Customer Class: Forecast Data, and
- 3: Level of Usage of Medium Pressure Distribution Services by Customer Class.

IN Investment History: It contains Historical inputs needed to estimate Annualized Investment-related LRMC. It includes 9 Tables:

- 1: High Pressure Distribution (HPD) Mains Footage Investment: New Business & Replacement Combined,
- 2: Total Plastic Distribution Mains Footage Investment: New Business & Replacement Combined,

(Note: no HP Plastic Distribution Mains)

3: Total Steel Distribution Mains (including HP) Footage Investment: New Business & Replacement Combined,

(Medium Pressure (MP) Steel Distribution Mains Footage is calculated as the residual)

- 4: Plastic New Business Vs. Replacement Distribution Mains Footage: Based on a Sample Survey,
- 5: Steel New Business Vs. Replacement Distribution Mains Footage: Based on a Sample Survey,
- 6: Plastic Mains Pressure Betterment Investment as a Fraction of Total Plastic Mains Investment,
- 7: Steel Mains Pressure Betterment Investment as a Fraction of Total Steel Mains Investment,
- 8: Contribution in Aid of Construction as a Fraction of Total Distribution Mains Cost,
- 9: Account 378 (Meters & Regulator Stations) Investment Info.

OUT_Investment_Forecast: It contains Forecasted inputs needed to estimate Annualized Investment-related LRMC. It includes 1 Table:

1: Forecasted Distribution-related Investment Costs:

Intermediate Output/Calculation Sheets:

HPD_Peak_Month_Demand: It calculates 4 Tables:

- 1: Peak Month Demand for Additional Customers Served by Customer Class,
- 2: Average Coincident Peak Month Demand per Customer,
- 3: Coincident Peak Month Demand for additional Customer served, and
- 4: High Pressure Distribution-Service-Usage-Weighted Coincident Peak Month Demand for Additional Customers Served.

Peak Day Demand: It calculates 5 Tables:

- 1: Number of Customers by Class,
- 2: Number of Additional Customers Served,
- 3: Average Peak Day Demand per Customer,
- 4: Peak Day Demand for Additional Customer served, and
- 5: Medium Pressure Distribution-Service-Usage-Weighted Peak Day Demand for Additional Customers Served.

OUT_Investment_History: It contains 4 Tables:

- 1: Plastic Distribution Mains: New Business, Pressure Betterment & Contribution in Aid of New Construction.
- 2: Steel Distribution Mains: New Business, Pressure Betterment & Contribution in Aid of New Construction.
- 3: High Pressure Distribution Mains: New Business, Pressure Betterment & Contribution in Aid of New Construction.
- 4: Load-Growth-related HP & MP Distribution Investments by Components & Total

OUT_Investment_Forecast: It contains 1 Table:

1: Allocation Factor, High & Medium Pressure Distribution Mains Forecasted Investments

OUT_MP_LRMC: It contains 4 Table:

- 1: System Demand Determinate, it estimates the distribution LRMC
- 2: Regression of Distribution Investment, it estimates Regression Coefficients for MP and HP Investment
- 3: Calculate Weighted Average RECC Factor, it estimates Regression Coefficients for HP Investment
- 4: % Share of investment between MPD and HPD

MPD Peak Day Demand

2027	CAP		

		Core C&I					NonCore			Total			Cummulative
Year	Residential	G10	Gas AC	NGV	Gas Eng	Total Core	C&I G-30	EOR G-40	EG G-50	Noncore	Wholesale	Total System	Total
	ak Day Demand by												
2014	1,996,817	573,721	168	31,012	2,867	2,604,585	542,150	57,110	879,121	1,478,382		4,082,967	
2015	1,988,767	572,712	141	29,666	2,382	2,593,667	496,668	55,160	791,482	1,343,310		3,936,978	
2016	1,948,436	558,008	165	35,493	3,171	2,545,272	589,822	63,826	754,670	1,408,319		3,953,591	
2017	2,045,432	602,845	180	38,377	3,605	2,690,440	556,756	45,544	607,780	1,210,080		3,900,520	
2018	2,052,420	592,539	41	38,879	2,700	2,686,580	547,571	54,395	606,461	1,208,426		3,895,006	
2019	2,065,216	590,326	34	39,880	2,474	2,697,930	560,517	50,291	764,065	1,374,874		4,072,804	
2020	2,097,874	551,754	18	34,484	3,224	2,687,355	544,678	48,329	708,147	1,301,154		3,988,508	
2021	2,037,574	570,959	30	41,707	2,701	2,652,971	530,021	25,787	758,197	1,314,005		3,966,976	
2022	2,027,559	563,570	26	46,677	2,164	2,639,996	565,984	28,532	885,660	1,480,176		4,120,172	
2023	2,048,895	589,152	27	49,152	2,289	2,689,515	505,591	26,136	777,852	1,309,578		3,999,094	
2024	2,023,627	571,169	40	50,498	2,669	2,648,003	519,633	24,837	753,373	1,297,844		3,945,846	
2025	2,080,110	558,112	0	57,621	2,577	2,698,420	492,231	27,299	780,042	1,299,573	0	3,997,993	
2026	2,058,879	548,621	0	60,859	2,577	2,670,936	486,576	27,709	778,569	1,292,854	0	3,963,789	
2027	2,044,175	543,125	0	63,633	2,577	2,653,509	482,112	28,520	847,976	1,358,609	0	4,012,118	
2028	2,032,657	539,525	0	65,887	2,577	2,640,646	478,367	28,146	855,956	1,362,468	0	4,003,115	
2029	2,027,001	536,371	0	67,552	2,577	2,633,501	476,525	27,783	859,919	1,364,227	0	3,997,727	
2030	2,020,659	533,251	0	68,203	2,577	2,624,690	474,860	27,433	874,084	1,376,377	0	4,001,067	
	Source: Historical		orecast throug	gh 2024 ; Dei	mand Forecast	Final TCAP, upda	te						
2014	5.446.579	204.616	9	218	712	5,652,134	571	32	228	831	0	5.652.965	
2014	5,475,689	203,977	10	226	714	5,680,616	565	34	247	846	0	5,681,462	
2016	5,516,213	203,580	9	245	718	5,720,765	554	33	313	900	0	5,721,665	
2017	5,552,767	203,360	9	251	711	5,757,448	572	24	344	940	0	5,758,388	
2017	5,585,261	203,710	6	262	691	5,789,446	567	24	346	940	0	5,790,383	
2019	5,621,561	203,220	5	262	682	5,826,405	572	23	350	945	0	5,827,350	
2020	5,651,072	202,864	4	282	658	5,854,880	565	22	367	954	0	5,855,834	
2020	5,684,763	202,8835	4	290	639	5,888,531	554	22	364	954	0	5,889,471	
2022	5,723,327	202,833	3	290	614	5,925,714	528	25	371	924	0	5,926,638	
2022	5,759,942	201,460	4	295	597	5,962,898	526	23	367	924	0	5,963,809	
2023	5,788,445	202,060	4	303	571	5,990,138	507	22	367	896	0	5,991,034	
2024	5,766,445	200,815	0	373	603	5,990,136	520	29	369	918	0	5,998,966	
2026	5,795,093	201,979	0	378	603		514		369	910	0	6,015,031	
						6,014,120		28					
2027	5,827,688	201,770	0	384	603	6,030,445	508	28	366	902	0	6,031,347	
2028 2029	5,844,299	201,677	0	390 396	603 603	6,046,969	502 496	28 27	366 366	896 889	0	6,047,865	
	5,861,412	201,624 201,569				6,064,035 6.081.952	496 490	27			0	6,064,924 6.082.834	
2030	5,879,378	∠∪1,569	0	402	603	0,001,952	490	21	366	883	U	0,002,834	

Table 2': Nu	mber of Additiona	I Cuatamara C	oned by Cu	otomor Class	= change in t	t austamara aash						
2014	n Additiona	n customers 3	n O	0	- change in r	n Customers each	0	0	0	0	0	0
2015	29.110	0	1	8	2	29.121	0	2	19	21	0	29.142
2016	40,524	0	Ó	19	4	40,547	Ö	0	66	66	0	40,613
2017	36.554	130	0	6	0	36.690	18	0	31	49	0	36.739
2017	32,494	0	0	11	0	32,505	0	0	2	2	0	32,507
2019	36,300	669	0	0	0	36,969	5	0	4	9	0	36,978
2019	29,511	0	0	20	0	29,531	0	0	17	17	0	29,548
2021	33,691	0	0	8	0	33,699	0	0	0	0	0	33,699
2022	38.564	0	0	0	0	38.564	Ö	3	7	10	0	38.574
2022	36,615	580	1	5	0	37,201	0	0	ó	0	0	37,201
2023	28,503	0	ò	8	0	28,511	Ö	0	0	0	0	28,511
2025	6,648	1,164	0	70	32	7,915	13	7	2	22	0	7,936
2026	16,155	0	0	5	0	16.160	0	0	0	0	0	16.160
2027	16,439	0	Ö	6	0	16,445	Ö	Ö	Ö	Ö	0	16.445
2028	16,611	0	0	6	Ö	16,617	ő	ő	0	0	0	16,617
2029	17,113	0	Ö	6	0	17,119	0	Ö	Ö	ő	0	17,119
2030	17,966	ő	ő	6	ő	17.972	ő	ő	ő	ő	ő	17,972
	rage Peak Day De							Ü	Ü	Ü	Ü	11,012
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	0.36	2.81	14.10	131.26	3.34	0.46	879.06	1622.34	3204.38	1587.84	0.00	0.69
2016	0.35	2.74	18.30	144.87	4.42	0.44	1064.66	1934.13	2411.09	1564.80	0.00	0.69
2017	0.37	2.96	20.05	152.90	5.07	0.47	973.35	1897.66	1766.80	1287.32	0.00	0.68
2018	0.37	2.92	6.85	148.39	3.91	0.46	965.73	2266.44	1752.78	1289.68	0.00	0.67
2019	0.37	2.90	6.80	152.22	3.63	0.46	979.93	2186.56	2183.04	1454.89	0.00	0.70
2020	0.37	2.72	4.55	122.28	4.90	0.46	964.03	2196.76	1929.56	1363.89	0.00	0.68
2021	0.36	2.81	7.44	143.82	4.23	0.45	956.72	1172.15	2082.96	1397.88	0.00	0.67
2022	0.35	2.80	8.51	160.96	3.52	0.45	1071.94	1141.28	2387.22	1601.92	0.00	0.70
2023	0.36	2.92	6.83	166.62	3.83	0.45	970.42	1136.35	2119.49	1437.52	0.00	0.67
2024	0.35	2.84	9.97	166.66	4.67	0.44	1024.92	1128.97	2052.79	1448.49	0.00	0.66
2025	0.36	2.76	0.00	154.48	4.27	0.45	946.60	953.80	2113.94	1416.24	0.00	0.67
2026	0.35	2.72	0.00	161.00	4.27	0.44	946.65	980.88	2109.94	1418.77	0.00	0.66
2027	0.35	2.69	0.00	165.71	4.27	0.44	949.04	1022.87	2316.88	1506.41	0.00	0.67
2028	0.35	2.68	0.00	168.94	4.27	0.44	952.92	1022.64	2338.68	1521.42	0.00	0.66
2029	0.35	2.66	0.00	170.59	4.27	0.43	960.74	1022.63	2349.50	1534.27	0.00	0.66
	k Day Demand Fo											
2014	. 0	0	0	0	0	0	0	0	0	0	0	0
2015	10,573	0	14	1,050	7	11,644	0	3,245	60,883	64,128	0	75,772
2016	14,314	0	0	2,753	18	17,084	. 0	0	159,132	159,132	0	176,216
2017	13,465	385	0	917	0	14,767	17,520	0	54,771	72,291	0	87,058
2018	11,941	0	0	1,632	0	13,573	0	0	3,506	3,506	0	17,078
2019	13,336	1,937	0	0	0	15,273	4,900	0	8,732	13,632	0	28,904
2020	10,956	0		2,446	0	13,401	0	0	32,802	32,802	0	46,204
2021 2022	12,076	0	0	1,151	0	13,226	0	0 3.424	0	0	0	13,226
	13,662	0	7	0	0	13,662	0		16,711	20,134	0	33,796
2023	13,024	1,691		833	0	15,556	0	0	0	0	0	15,556
2024	9,965 2,386	0 3.217	0	1,333 10.814	138	11,298 16,555	12.306	0 6.316	0 4.228	0 22.849	0	11,298 39,404
2025		3,217	0	10,814	138		12,306	0,316	4,228	22,849	0	
2026	5,724 5,766	0	0	805 994	0	6,529 6,761	0	0	0	0	0	6,529 6,761
2027	5,766	0	0	1.014	0	6,791	0	0	0	0	0	6,761
2028	5,777 5,918	0	0	1,014	0	6,791 6,942	0	0	0	0	0	6,791 6,942
2023	0,510	U	U	1,024	U	0,542	U	U	U	U	U	0,542

0.00% 0.00% 0.00%

able 4: Medi	ium Pressure Dis	stribution-Servi	ce-Usage-V	eighted Peak	Day Demand	For Additional Co	ustomers Serv	ved (Mcfd) = 1	total demand	for additiona	customers *	% of customers	that use HPD :
2014	0	0	0	0	0	0	0	0	0	0	0	0	
2015	10,532	0	14	590	5	11,142	0	0	0	0	0	11,142	11,142
2016	14,259	0	0	1,547	13	15,820	0	0	0	0	0	15,820	26,961
2017	13,414	365	0	516	0	14,294	0	0	0	0	0	14,294	41,256
2018	11,895	0	0	917	0	12,812	0	0	0	0	0	12,812	54,068
2019	13,285	1,837	0	0	0	15,122	0	0	0	0	0	15,122	69,190
2020	10,914	0	0	1,374	0	12,288	0	0	0	0	0	12,288	81,478
2021	12,030	0	0	647	0	12,676	0	0	0	0	0	12,676	94,154
2022	13,610	0	0	0	0	13,610	0	0	0	0	0	13,610	107,764
2023	12,975	1,604	7	468	0	15,053	0	0	0	0	0	15,053	122,817
2024	9,927	0	0	749	0	10,676	0	0	0	0	0	10,676	133,493
2025	2,377	3,050	0	6,077	105	11,609	0	0	0	0	0	11,609	145,102
2026	5,702	0	0	452	0	6,154	0	0	0	0	0	6,154	151,256
2027	5,744	0	0	559	0	6,303	0	0	0	0	0	6,303	157,560
2028	5,755	0	0	570	0	6,325	0	0	0	0	0	6,325	163,885
2029	5,896	0	0	575	0	6.471	0	0	0	0	0	6.471	170,355

HPD Peak Month 2027 CAP

							NonCore C&I G-						Cumulative
Year	Residential	Core C&I G10	Gas AC	NGV	Gas Eng	Total Core	30	EOR G-40	EG G-50	Total Noncore	Wholesale	Total System	Total
T. 11. 4. 0.													
2014	34.495.941	th Demand by Cust 11,440,059	5.216	961,365	88,873	46.991.454	13,118,963	1,770,415	21,835,259	36,724,637		83.716.091	
2015	34,061,633	11,404,852	4,371	919,641	73,833	46,464,330	12,018,388	1,709,949	19,658,518	33,386,855		79,851,185	
2016	32,615,258	10.962.751	5,105	1,100,279	98.288	44,781,681	14,272,532	1,978,620	18,744,194	34,995,345		79,777,026	
2017	35,438,628	12,348,883	5,593	1,189,689	111,750	49,094,543	13,472,390	1,411,859	15,095,793	29,980,042		79,074,585	
2018	35,490,945	12,044,253	1,275	1,205,263	83,698	48,825,434	13,250,126	1,686,235	15,063,031	29,999,392		78,824,826	
2019	35,704,708	11,954,816	1,055	1,236,293	76,692	48,973,563	13,563,407	1,559,018	18,977,545	34,099,970		83,073,533	
2020	36,554,720	10,785,027	564	1,069,007	99,958	48,509,275	13,180,122	1,498,188	17,588,672	32,266,981		80,776,257	
2021	34,529,526	11,387,428	923	1,292,908	83,739	47,294,526	12,825,458	799,403	18,831,785	32,456,645		79,751,171	
2022	34,004,093	11,181,026	791	1,446,988	67,092	46,699,990	13,695,681	884,493	21,997,670	36,577,844		83,277,834	
2023	34,501,764	11,975,444	847	1,523,716	70,953	48,072,725	12,234,287	810,216	19,319,970	32,364,473		80,437,198	
2024	33,497,024	11,439,074	1,236	1,565,423	82,731	46,585,488	12,574,097	769,956	18,711,974	32,056,026		78,641,514	
2025	35,111,744	11,529,421	1,245	1,895,404	84,759	48,622,573	14,020,038	897,988	17,734,101	32,652,127		81,274,700	
2026	34,415,707	11,247,981	1,245	2,001,897	84,759	47,751,589	13,867,764	897,988	17,667,430	32,433,181	0	80,184,770	
2027	33,805,086	11,048,355	1,245	2,093,147	84,759	47,032,592	13,747,242	938,160	19,177,500	33,862,902	0	80,895,494	
2028 2029	33,246,789 32,871,870	10,889,602 10,742,145	1,245 1,245	2,167,318 2,222,078	84,759 84,759	46,389,713 45,922,096	13,645,989 13,593,675	925,831 913,909	20,700,295 20,815,822	35,272,115 35,323,405	0	81,661,827 81,245,502	
2029	32,493,107	10,742,145	1,245	2,222,076	84,759	45,427,211	13,547,031	902,390	20,285,582	34,735,004	0	80,162,214	
		from Demand Foreca								,,		,,	
Table 1': Nu	umber of Customer	s by Class											
2014	5,446,579	204,616	9	218	712	5,652,134	571	32	228	831	0	5,652,965	
2015	5,475,689	203,977	10	226	714	5,680,616	565	34	247	846	0	5,681,462	
2016	5,516,213	203,580	9	245	718	5,720,765	554	33	313	900	0	5,721,665	
2017	5,552,767	203,710	9	251	711	5,757,448	572	24	344	940	0	5,758,388	
2018	5,585,261	203,226	6	262	691	5,789,446	567	24	346	937	0	5,790,383	
2019	5,621,561	203,895	5	262	682	5,826,405	572	23	350	945	0	5,827,350	
2020	5,651,072	202,864	4	282	658	5,854,880	565	22	367	954	0	5,855,834	
2021	5,684,763	202,835	4	290	639	5,888,531	554	22	364	940	0	5,889,471	
2022	5,723,327	201,480	3	290	614	5,925,714	528	25	371	924	0	5,926,638	
2023	5,759,942	202,060	4	295	597	5,962,898	521	23	367	911	0	5,963,809	
2024	5,788,445	200,815	4	303	571	5,990,138	507	22	367	896	0	5,991,034	
2025	5,795,093	201,979	0	373	603	5,998,049	520	29	369	940	0	5,998,989	
2026 2027	5,811,248 5,827,688	201,890 201,770	0	378 384	603 603	6,014,120 6,030,445	514 508	28 28	369 366	1,019 902	0	6,015,139 6,031,347	
2028	5,844,299	201,677	Ö	390	603	6,046,969	502	28	366	896	Ö	6,047,865	
2029	5,861,412	201,624	0	396	603	6,064,035	496	27	366	889	0	6,064,924	
2030	5,879,378	201,569	0	402	603	6,081,952	490	27	366	883	0	6,082,834	
2031	5,897,736	201,491	0	408	603	6,100,238	484	26	366	876	0	6,101,114	

History from Ken Parris, December CIS Revenue Files Active Customer Counts by rate catego

2014	0	I Customers Serve	0	0	0	0	0	0	0	0	0	0
2015	29,110	0	1	8	2	29,121	0	2	19	15	0	29,136
2016	40,524	0	0	19	4	40,547	0	0	66	54	0	40,601
2017	36,554	130	ō	6	ó	36,690	18	Ö	31	40	ō	36,730
2018	32,494	0	ō	11	ō	32,505	0	ō	2	0	ō	32,505
2019	36,300	669	ő	0	ő	36,969	5	Ö	4	8	ő	36,977
2020	29,511	0	ő	20	ő	29,531	ő	Ö	17	9	ő	29,540
2021	33,691	Ö	0	8	0	33,699	Ö	0	0	0	0	33,699
2021	38,564	0	0	0	0	38,564	0	3	7	0	0	38,564
2022		580		5	0		0	0	0	0	0	
	36,615			8	0	37,201	0	0	0	0	0	37,201
2024	28,503	0	0	8 70		28,511		0 7	2			28,511
2025	6,648	1,164	0		32	7,915	13			44	0	7,959
2026	16,155	0	0	5	0	16,160	0	0	0	79	0	16,239
2027	16,439	0	0	6	0	16,445	0	0	0	0	0	16,445
2028	16,611	0	0	6	0	16,617	0	0	0	0	0	16,617
2029	17,113	0	0	6	0	17,119	0	0	0	0	0	17,119
2030	17,966	0	0	6	0	17,972	0	0	0	0	0	17,972
	rage Coincident P	eak Month Demai			I Demand by	class / total # custo						
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	6.2	55.9	437.1	4,069.2	103.4	4,672	21,271.5	50,292.6	79,589.1	39,464.4	0.0	44,136
016	5.9	53.8	567.3	4,490.9	136.9	5,255	25,762.7	59,958.2	59,885.6	38,883.7	0.0	44,139
2017	6.4	60.6	621.4	4,739.8	157.2	5,585	23,553.1	58,827.5	43,883.1	31,893.7	0.0	37,479
018	6.4	59.3	212.4	4,600.2	121.1	4,999	23,368.8	70,259.8	43,534.8	32,016.4	0.0	37,016
019	6.4	58.6	210.9	4,718.7	112.5	5,107	23,712.3	67,783.4	54,221.6	36,084.6	0.0	41,192
2020	6.5	53.2	141.1	3,790.8	151.9	4,143	23,327.6	68,099.4	47,925.5	33,822.8	0.0	37,966
2021	6.1	56.1	230.8	4,458.3	131.0	4,882	23,150.6	36,336.5	51,735.7	34,528.3	0.0	39,411
022	5.9	55.5	263.7	4,989.6	109.3	5,424	25,938.8	35,379.7	59,292.9	39,586.4	0.0	45.010
023	6.0	59.3	211.8	5,165.1	118.8	5,561	23,482.3	35,226.8	52,643.0	35,526.3	0.0	41,087
024	5.8	57.0	309.0	5,166.4	144.9	5,683	24,801.0	34,998.0	50,986.3	35,776.8	0.0	41,460
025	6.1	57.1	0.0	5,081.5	140.5	5,285	26,961.6	31,374.7	48,059.9	34,736.3	0.0	40,021
026	5.9	55.7	0.0	5,296.0	140.5	5,498	26,980.1	31,788.2	47,879.2	31,816.3	0.0	37,314
2027	5.8	54.8	0.0	5,450.9	140.5	5,652	27,061.5	33,646.5	52,397.5	37,546.9	0.0	43,199
2027	5.7	54.0	0.0	5,557.2	140.5	5,757	27,183.2	33,638.9			0.0	45,145
2026 2029	5.7	53.3	0.0	5,557.2	140.5	5,757	27,163.2	33,638.8	56,558.2 56,873.8	39,387.2 39,726.3	0.0	45,145 45,537
2029	5.0	55.5	0.0	3,011.3	140.5	3,011	27,400.0	33,030.0	30,073.0	39,720.3	0.0	43,337
ole 3: Coir	ncident Peak Mon	th Demand For Ad	dditional Custo	omers Served (Mcf) = # addit	tional customers * a	verage demand	per custome				
2014	0	0	0	0	0	0	0	0	0	0	0	0
2015	181,079	0	437	32,554	207	136,049,200	0	100,585	1,512,194	591,966	0	1,285,953,089
2016	239,603	0	0	85,328	548	213,068,597	0	0	3,952,450	2,099,721	0	1,792,070,131
2017	233,293	7,881	0	28,439	0	204,928,047	423,956	0	1,360,377	1,275,746	0	1,376,605,653
2018	206,480	0	0	50,603	0	162,506,163	0	0	87,070	0	0	1,203,200,113
2019	230,555	39,225	0	0	0	188,801,015	118,561	0	216,886	288,677	0	1,523,143,017
2020	190,896	0	ő	75,816	ő	122,359,413	0	Ö	814,734	304,405	ő	1,121,523,151
2021	204,641	ŏ	ő	35,666	ő	164,530,058	ő	Ö	0	0	ő	1,328,100,796
2022	229,121	Ö	ō	0	Ö	209,173,150	Ö	106.139	415.050	Ö	0	1,735,783,527
2023	219,322	34,375	212	25,826	ő	206,875,522	Ö	0	0	Ö	0	1,528,489,976
2023		0	0		0		0	0	0	0	0	
2024 2025	164,943	66,449	0	41,331 355,706	4,535	162,028,015	350,501	207,745	96,120	1,528,397	0	1,182,060,783
2025 2026	40,282					41,831,153						318,524,654
	95,674	0	0	26,480	0	88,849,998	0	0	0	2,525,897	0	605,961,872
2027	95,360	0	0	32,705	0	92,947,992	0	0	0	0	0	710,416,927
028	94,496	0	0	33,343	0	95,671,243	0	0	0	0	0	750,170,856
2029	95,975	0	0	33,668	0	99,475,672	0	0	0	0	0	779,567,723
2030	0	0	0	0	0	0	0	0	0	0	0	0

0.00% 0.00% 0.00%

0 181,704 421,813 662,927 869,398 1,138,921 1,329,808 1,534,440 1,763,551 2,017,234 2,182,170 2,292,757 0 4,277 0 0 0 0 0 2,292,757 2,388,426 2,483,783 2,578,275 2,674,246 2,674,246 2026 2027 2028 2029 2030 95,670 95,356 94,492 95,971 0 24,092 29,756 30,336 30,631 0 95,670 95,356 94,492 95,971 0 95,670 95,356 94,492 95,971 0 0 0 0 0 0 0 0 0

TABLE - 1 FORECASTED DISTRIBUTION INVESTMENT

			Pressure		FFRC Account #378	Total
			Flessule	New Business	TENC Account #376	Total
	Year	New Business	Betterment	Forfeiture	Meter & Reg. Station	Distribution
	2012	\$11.307.459	\$18.578.855	(\$2.564.785)	\$7.845.106	\$35,166,634
	2013	\$19.813.570	\$16.516.777	(\$1,866,998)	\$8.316.250	\$42,779,599
	2014	\$20,144,563	\$53,568,457	(\$2,938,240)	\$6,967,124	\$77,741,904
	2015	\$25,504,301	\$31,731,305	(\$3,624,013)	\$6,622,661	\$60,234,254
	2016	\$25,150,192	\$44,246,432	(\$7,499,486)	\$5,314,881	\$67,212,019
	2017	\$30,452,297	\$33,359,289	(\$9,874,188)	\$5,451,961	\$59,389,359
	2018	\$34,138,934	\$21,743,552	(\$3,783,834)	\$7,011,559	\$59,110,211
	2019	\$33,437,711	\$27,628,652	(\$4,897,523)	\$6,960,835	\$63,129,675
	2020	\$28,936,556	\$54,907,150	(\$3,024,569)	\$11,602,736	\$92,421,873
	2021	\$33,291,769	\$24,065,823	(\$2,333,457)	\$19,668,326	\$74,692,461
Forecast	2022	\$30,990,714	\$29,094,972	(\$4,667,819)	\$19,668,326	\$75,086,193
	2023	\$33,035,653	\$28,272,105	(\$4,773,643)	\$19,668,326	\$76,202,442
	2024	\$0	\$28,177,382	\$0	\$19,668,326	\$47,845,708
	2025	0	29,022,704	\$0	\$19,668,326	\$48,691,030
	2026	0	29,893,385	\$0	\$19,668,326	\$49,561,711
	2027	0	30,790,186	\$0	\$19,668,326	\$50,458,512
	2028	0	31,713,892	\$0	\$19,668,326	\$51,382,218
	2029	0	32,665,309	\$0	\$19,668,326	\$52,333,635
	2030	0	33,645,268	\$0	\$19,668,326	\$53,313,594

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Post Test Years Escalate 3.%, per GRC Decision

2027

TABLE - 1 FORECASTED DISTRIBUTION INVESTMENT

			Pressure		FERC Account #378	Total
				New Business		
	<u>Year</u>	New Business	Betterment	Forfeiture	Meter & Reg. Station	Distribution
	2015	\$36,043,355	\$44,843,522	(\$5,121,552)	\$11,444,627	\$87,209,953
	2016	\$34,985,320	\$61,549,256	(\$10,432,203)	\$9,082,462	\$95,184,834
	2017	\$41,761,840	\$45,748,447	(\$13,541,319)	\$8,934,165	\$82,903,133
	2018	\$46,245,448	\$29,454,355	(\$5,125,675)	\$10,961,822	\$81,535,950
	2019	\$43,848,765	\$36,231,017	(\$6,422,399)	\$10,541,611	\$84,198,993
	2020	\$37,006,804	\$70,220,456	(\$3,868,105)	\$17,097,668	\$120,456,824
	2021	\$40,785,834	\$29,483,103	(\$2,858,724)	\$24,796,790	\$92,207,003
Forecast	2022	\$37,966,806	\$35,644,326	(\$5,718,558)	\$24,796,790	\$92,689,365
	2023	\$40,472,066	\$34,636,230	(\$5,848,202)	\$24,796,790	\$94,056,884
	2024	\$0	\$34,520,185	\$0	\$24,796,790	\$59,316,975
	2025	\$0	\$35,555,791	\$0	\$24,796,790	\$60,352,581
	2026	\$0	\$36,622,464	\$0	\$24,796,790	\$61,419,255
	2027	\$0	\$37,721,138	\$0	\$24,796,790	\$62,517,929
	2028	\$0	\$38,852,772	\$0	\$24,796,790	\$63,649,563
	2029	\$0	\$40,018,356	\$0	\$24,796,790	\$64,815,146
	2030	\$0	\$41,218,906	\$0	\$24,796,790	\$66,015,697

2017 - 2021 Values

The Cut Yalues

New Business Column

This includes historical, actual loaded costs of Budget Codes (BCs) 151 – 153. The figures are in recorded-year dollars and not constant 2021\$

Due to the little to no HP new business main projects, these costs can be assumed to be entirely medium pressure work

Pressure Betterment Column
This includes historical, actual loaded costs of BC 251. The figures are in recorded-year dollars and not constant 2021\$

Prior to 2021 includes historical. The figures are in recorded-year dollars and not constant 2021\$

2022 – 2024 Values
New Business Column
This is the forecast costs of BCs 151 – 153 based on the RO model output of our TY2024 GRC. The figures are in constant 2021\$.

Pressure Betterment Column
This is the forecast costs of BC 251 based on the RO model output of our TY2024 GRC. The figures are in constant 2021\$

2027\$ Global Insight Plastic mains

JUGPDMP@PCF

1.413227 1.391056 1.371386 1.354625 1.311357 1.278895 1.225103 1.225103

1.225103

1.225103 1.225103 1.225103 1.225103

1.225103 1.225103

Meas. & Reg. St. Equip.

JUGPDSTM&R@PCF

1.728101 1.708874 1.638707 1.563393 1.514418 1.473589 1.260747 Forecast 1.260747 1.260747

1.260747

1.260747 1.260747 1.260747

1.260747 1.260747

TABLE - 2 High Pressure FORECASTED DISTRIBUTION INVESTMENT

		Pressure		FERC Account #378	Total		Hp Inventory As Fraction of Reg. Station
Year	New Business	Betterment	New Business Forfeiture	Meter & Reg. Station	Distribution		
2012	\$0	\$9,103,639	\$0	\$998,034	\$10,101,673		0.1272
2013	\$0	\$8.093.221	\$0	\$1,096,137	\$9,189,358		0.1318
2014	\$0	\$26.248.544	\$0	\$909,837	\$27,158,381		0.1306
2015	\$0	\$15,548,339	\$0	\$867,304	\$16,415,643		0.1310
2016	\$0	\$21,680,752	\$0	\$695,240	\$22,375,991		0.1308
2017	\$0	\$16,346,052	\$0	\$715,297	\$17,061,349		0.1312
2018	\$0	\$10,654,340	\$0	\$919,215	\$11,573,556		0.1311
2019	\$0	\$13,538,039	\$0	\$915,350	\$14,453,389		0.1315
2020	\$0	\$26,904,504	\$0	\$1,540,843	\$28,445,347		0.1328
2021	\$0	\$11,792,253	\$0	\$2,611,954	\$14,404,207		0.1328
2022	\$0	\$14,256,536	\$0	\$2,611,954	\$16,868,490		0.1328
2023	\$0	\$13,853,331	\$0	\$2,611,954	\$16,465,285		0.1328
2024	\$0	\$13,806,917	\$0	\$2,611,954	\$16,418,871		0.1328
2025	0	\$14,221,125	\$0	2,611,954	\$16,833,079		0.1328
2026	0	\$14,647,759	\$0	2,611,954	\$17,259,712		0.1328
2027	0	\$15,087,191	\$0	2,611,954	\$17,699,145		0.1328
2028	0	\$15,539,807	\$0	2,611,954	\$18,151,761		0.1328
2029	0	\$16,006,001	\$0	2,611,954	\$18,617,955		0.1328
2030	0	\$16,486,181	\$0	2,611,954	\$19,098,135		0.1328

FYI — as a follow-up for the HP/MP split, please utilize 6.43% (% of DOT-Distribution jurisdiction HP lines within Gas Distribution; 3,325 miles out of 51,671). Please let me know if you have any questions!

Song Ik, No Longer

	49%
HP	(\$ 92,526,097.77
	/\$ 188,562,068.53)
	51%
MP	(\$ 96,035,970.76

This split was derived from the type of projects that contribute to the historical cost during 2012 - 2021

TABLE - 2 High Pressure FORECASTED DISTRIBUTION INVESTMENT

		Pressure		FERC Account #378	Total	Cumulative
<u>Year</u>	New Business	Betterment	New Business Forfeiture	Meter & Reg. Station	Distribution	Distribution
2015	\$0	\$21,973,326	\$0	\$1,498,788	\$23,472,114	\$23,472,114
2016	\$0	\$30,159,135	\$0	\$1,188,077	\$31,347,212	\$54,819,327
2017	\$0	\$22,416,739	\$0	\$1,172,163	\$23,588,901	\$78,408,228
2018	\$0	\$14,432,634	\$0	\$1,437,095	\$15,869,729	\$94,277,957
2019	\$0	\$17,753,198	\$0	\$1,386,222	\$19,139,420	\$113,417,377
2020	\$0	\$34,408,024	\$0	\$2,270,570	\$36,678,594	\$150,095,971
2021	\$0	\$14,446,720	\$0	\$3,293,014	\$17,739,734	\$167,835,705
2022	\$0	\$17,465,720	\$0	\$3,293,014	\$20,758,734	\$188,594,439
2023	\$0	\$16,971,753	\$0	\$3,293,014	\$20,264,767	\$208,859,205
2024	\$0	\$16,914,891	\$0	\$3,293,014	\$20,207,904	\$229,067,110
2025	\$0	\$17,422,337	\$0	\$3,293,014	\$20,715,351	\$249,782,461
2026	\$0	\$17,945,008	\$0	\$3,293,014	\$21,238,021	\$271,020,482
2027	\$0	\$18,483,358	\$0	\$3,293,014	\$21,776,372	\$292,796,854
2028	\$0	\$19,037,859	\$0	\$3,293,014	\$22,330,872	\$315,127,726
2029	\$0	\$19,608,994	\$0	\$3,293,014	\$22,902,008	\$338,029,734
2030	\$0	\$20,197,264	\$0	\$3,293,014	\$23,490,278	\$361,520,012

53 (32.5%) to the overall NB workpaper

TABLE - 3 Medium Pressure FORECASTED DISTRIBUTION INVESTMENT

	,				
		_			
		Pressure		FERC Account #378	Total
<u>Year</u>	New Business	Betterment	New Business Forfeiture	Meter & Reg. Station	Distribution
2012	\$11,307,459	\$9,475,216	(\$2,564,785)	\$6,847,072	\$25,064,961
2013	\$19,813,570	\$8,423,556	(\$1,866,998)	\$7,220,113	\$33,590,242
2014	\$20,144,563	\$27,319,913	(\$2,938,240)	\$6,057,287	\$50,583,523
2015	\$25,504,301	\$16,182,966	(\$3,624,013)	\$5,755,358	\$43,818,611
2016	\$25,150,192	\$22,565,680	(\$7,499,486)	\$4,619,641	\$44,836,028
2017	\$30,452,297	\$17,013,237	(\$9,874,188)	\$4,736,664	\$42,328,010
2018	\$34,138,934	\$11,089,212	(\$3,783,834)	\$6,092,344	\$47,536,655
2019	\$33,437,711	\$14,090,613	(\$4,897,523)	\$6,045,485	\$48,676,286
2020	\$28,936,556	\$28,002,647	(\$3,024,569)	\$10,061,893	\$63,976,526
2021	\$33,291,769	\$12,273,570	(\$2,333,457)	\$17,056,372	\$60,288,254
2022	\$30,990,714	\$14,838,435	(\$4,667,819)	\$17,056,372	\$58,217,703
2023	\$33,035,653	\$14,418,774	(\$4,773,643)	\$17,056,372	\$59,737,156
2024	\$0	\$14,370,465	\$0	\$17,056,372	\$31,426,837
2025	\$0	\$14.801.579	\$0	\$17.056.372	\$31.857.951
2026	\$0	\$15,245,626	\$0	\$17,056,372	\$32,301,999
2027	\$0	\$15.702.995	\$0	\$17.056.372	\$32,759,367
2028	\$0	\$16,174,085	\$0	\$17,056,372	\$33,230,457
2029	\$0	\$16.659.307	\$0	\$17.056.372	\$33,715,680
2030	\$0	\$17,159,087	so	\$17.056.372	\$34,215,459
2030	φ0	φ17,139,007	J 90	φ17,030,372	φ54,215,459

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TABLE - 3 Medium Pressure FORECASTED DISTRIBUTION INVESTMENT

		Pressure		FERC Account #378	Total	Cumulative
Year	New Business	Betterment	New Business Forfeiture	Meter & Reg. Station	Distribution	Distribution
2015	\$36,043,355	\$22,870,196	(\$5,121,552)	\$9,945,839	\$63,737,838	\$63,737,838
2016	\$34,985,320	\$31,390,120	(\$10,432,203)	\$7,894,385	\$63,837,622	\$127,575,461
2017	\$41,761,840	\$23,331,708	(\$13,541,319)	\$7,762,003	\$59,314,232	\$186,889,692
2018	\$46,245,448	\$15,021,721	(\$5,125,675)	\$9,524,727	\$65,666,221	\$252,555,914
2019	\$43,848,765	\$18,477,819	(\$6,422,399)	\$9,155,389	\$65,059,573	\$317,615,487
2020	\$37,006,804	\$35,812,433	(\$3,868,105)	\$14,827,098	\$83,778,230	\$401,393,717
2021	\$40,785,834	\$15,036,383	(\$2,858,724)	\$21,503,777	\$74,467,269	\$475,860,985
2022	\$37,966,806	\$18,178,606	(\$5,718,558)	\$21,503,777	\$71,930,631	\$547,791,616
2023	\$40,472,066	\$17,664,477	(\$5,848,202)	\$21,503,777	\$73,792,117	\$621,583,734
2024	\$0	\$17,605,294	\$0	\$21,503,777	\$39,109,071	\$660,692,805
2025	\$0	\$18,133,453	\$0	\$21,503,777	\$39,637,230	\$700,330,034
2026	\$0	\$18,677,457	\$0	\$21,503,777	\$40,181,233	\$740,511,268
2027	\$0	\$19,237,781	\$0	\$21,503,777	\$40,741,557	\$781,252,825
2028	\$0	\$19,814,914	\$0	\$21,503,777	\$41,318,690	\$822,571,515
2029	\$0	\$20,409,361	\$0	\$21,503,777	\$41,913,138	\$864,484,653
2030	\$0	\$21,021,642	\$0	\$21,503,777	\$42,525,419	\$907,010,072

TABLE 8
Distribution Long Run Marginal Cost Estimate (2024\$s)
SOUTHERN CALIFORNIA GAS COMPANY
2027 CAP

System	MPD	HPD
Demand Determinate	mcfd	mcf/month
Capital-related LRMC:		
Medium Pressure Regression Coefficient =	\$5,044	\$117.30
Weighted RECC Factor =	6.89%	6.84%
Annualized Capital-related LRMC	\$347.65	\$8.02
O&M-related LRMC:		
Total Distribution O&M costs (2021 \$000's) =	\$129,425	\$129,425
escalation 2021 to 2027	1.1449	1.1449
Total Distribution O&M costs (2027 \$000's) =	\$148,176	\$148,176
% Share of Investment	73%	27%
Peak Day Demand	6,031	6,031
O&M-related LRMC	\$17.87	\$6.69740
A&G-related LRMC:		
A&G Factor, as a Percent of O&M-related LRMC	46.92%	46.92%
A&G-related LRMC	\$8.38	\$3.14235
General Plant (GP)-related LRMC:		
GP Factor, as a Percent of O&M-related LRMC	44.95%	44.95%
GP-related LRMC	\$8.03	\$3.01070
Material & Supply (M&S)-related LRMC:		
Total Distribution M&S costs (2024 \$000's) =	\$5,628	\$5,628
% Share of Investment	73%	27%
Demand Determinantes	6,048	6,048
M&S-related LRMC	\$0.68	\$0.25369
Distribution LRMC =	\$382.61 \$/Mcfd	\$21.13 \$Mcf/mo

TABLE 7
Regression of Distribution Investment
SOUTHERN CALIFORNIA GAS COMPANY
2027 CAP

System	MPD	MPD	HPD	HPD
				Peak Month
				Cumulative
	Cumulative	Peak Day Cumulative	Cumulative	Demand MMcf/
Year	Investment \$000	Demand MMcfd	Investment \$000	Month
2015	\$63,738	11	\$23,472	182
2016	\$127,575	27	\$54,819	422
2017	\$186,890	41	\$78,408	663
2018	\$252,556	54	\$94,278	869
2019	\$317,615	69	\$113,417	1,139
2020	\$401,394	81	\$150,096	1,330
2021	\$475,861	94	\$167,836	1,534
2022	\$547,792	108	\$188,594	1,764
2023	\$621,584	123	\$208,859	2,017
2024	\$660,693	133	\$229,067	2,182
2025	\$700,330	145	\$249,782	2,293
2026	\$740,511	151	\$271,020	2,388
2027	\$781,253	158	\$292,797	2,484
2028	\$822,572	164	\$315,128	2,578
2029	\$864,485	170	\$338,030	2,674
Regression Coefficient	\$5,043.62		\$117.30	

Calculate Weighted Average RECC Factor:

System	MPD	MPD	MPD	MPD	HPD	HPD	HPD	HPD
				Account #378		_		Account #378
Historical Investment	New Business \$000's	Pressure Betterment \$000	New Business Forfeiture \$000	Meter & Reg Stations \$000	New Business \$000's	Pressure Betterment \$000	New Business Forfeiture \$000	Meter & Reg Stations \$000

2015	\$36,043	\$22,870	(\$5,122)	\$9,946	\$0	\$21,973	\$0	\$1,499
2016	\$34,985	\$31,390	(\$10,432)	\$7,894	\$0	\$30,159	\$0	\$1,188
2017	\$41,762	\$23,332	(\$13,541)	\$7,762	\$0	\$22,417	\$0	\$1,172
2018	\$46,245	\$15,022	(\$5,126)	\$9,525	\$0	\$14,433	\$0	\$1,437
2019	\$43,849	\$18,478	(\$6,422)	\$9,155	\$0	\$17,753	\$0	\$1,386
2020	\$37,007	\$35,812	(\$3,868)	\$14,827	\$0	\$34,408	\$0	\$2,271
2021	\$40,786	\$15,036	(\$2,859)	\$21,504	\$0	\$14,447	\$0	\$3,293
2022	\$37,967	\$18,179	(\$5,719)	\$21,504	\$0	\$17,466	\$0	\$3,293
2023	\$40,472	\$17,664	(\$5,848)	\$21,504	\$0	\$16,972	\$0	\$3,293
2024	\$0	\$17,605	\$0	\$21,504	\$0	\$16,915	\$0	\$3,293
Total Invest \$000	\$323,073	\$192,519	(\$53,815)	\$135,179	\$0	\$184,969	\$0	\$20,626
	Total Invest \$000's	% of Total	RECC %	Weghted RECC%	Total Invest \$000's	% of Total	RECC %	Weghted RECC%
New Business \$000's	\$323.073	54%	6.80%	3.68%	\$0	0%	6.80%	0.00%

Pressure Betterment	\$192,519	32%	6.80%	2.19%	\$184,969	90%	6.80%	6.12%
CIAC	(\$53,815)	-9%	6.80%	-0.61%	\$0	0%	6.80%	0.00%
subtotal	\$461,776	77%		5.26%	\$184,969	90%		6.12%
Meter & Reg Stations #378	\$135,179	23%	7.21%	1.63%	\$20,626	10%	7.21%	0.72%
Total	\$596,955	100%		6.89%	\$205,595	100%	·	6.84%

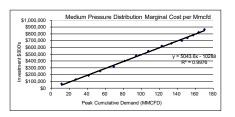
% Share of Investment between MPD and HPD:

	Investment \$000's	% Share
MPD Investment	\$781,253	73%
HPD Investment	\$292,797	27%
	\$1,074,050	100%

Marginal MPD Costs

Year Cumulative CAPEX MMcfd 2015 11 5800°s 5803.73 52016 27 \$12.75 2017 41 \$186.890 2020 81 \$410.394 2021 94 \$317.515 2022 108 \$347.518 2022 94 \$475.881 2022 108 \$475.881 202

Marginal MPD Investment per MMCFD



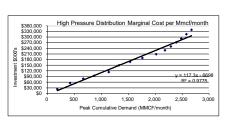
Marginal MP Distribution Cos

Marginal Cost for Medium Pressure Distribution (MPD) (2027 \$/Mcfd peak day)		
Capital-related Charge: MPD Regression Coefficient \$/Mcfd x RECC Factor	\$5,043.62 6.89%	
= Annualized Capital-related Charge (\$/Mcfd)	\$347.65	
+ Direct O&M + A&G + GP	\$17.87 \$8.38 \$8.03	
+ GP + M&S	\$0.68	
= Marginal Unit Cost (\$/Mcfd)	\$382.61	

Marginal HPD Costs

	Cumulative Mmcf/	Cumulative CAPEX
Year	month	\$000's
2015	182	\$23,472
2016	422	\$54,819
2017	663	\$78,408
2018	869	\$94,278
2019	1,139	\$113,417
2020	1,330	\$150,096
2021	1,534	\$167,836
2022	1,764	\$188,594
2023	2,017	\$208,859
2024	2,182	\$229,067
2025	2,293	\$249,782
2026	2,388	\$271,020
2027	2,484	\$292,797
2028	2,578	\$315,128
2029	2,674	\$338,030

Marginal HPD Investment per MMCF/month



Marginal HP Distribution Cost

Table 5

Marginal Cost for High Pressure Distribution (2027 \$/MCF/month)

Capital-related Charge: HPD Regression Coefficient \$/Mcf/month x RECC Factor	\$117.30 6.84%
= Annualized Capital-related Charge (\$/Mcf/month)	\$8.02
+ Direct O&M + A&G	\$6.70 \$3.14
+ GP + M&S	\$3.01 \$0.25
= Marginal HP Distribution Cost(\$/MCF/month	\$21.13