

Company: San Diego Gas & Electric Company (U 902 M)  
Proceeding: 2024 General Rate Case  
Application: A.22-05-016  
Exhibit: SDG&E-48-R

**REVISED**  
**PREPARED DIRECT TESTIMONY OF**  
**JEFF P. STEIN**  
**(PRESENT AND PROPOSED ELECTRIC REVENUES AND RATES)**

**BEFORE THE PUBLIC UTILITIES COMMISSION**  
**OF THE STATE OF CALIFORNIA**



August 2022

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## SUMMARY

- Proposed 2024 GRC system average electric rates revenue will increase 6.6% over 2023 system average electric rates revenue that reflect the as expected authorized 2023 GRC revenue requirements if all of San Diego Gas & Electric Company's (SDG&E) 2024 Test Year (TY) General Rate Case (GRC) Phase 1 proposals are adopted. System average electric rates revenue will increase 10.8% over current effective 2022 system average rates revenue if all of SDG&E's 2024 TY GRC Phase 1 proposals are adopted.
- When comparing illustrative 2023 rates that reflect the expected authorized 2023 GRC revenue requirements shown in the GRC filing to the proposed illustrative 2024 GRC Phase 1 rates, the typical inland residential customer with basic service that uses 400 kWh per month would see an increase of \$8.63 per month, or 5.5%, in the summer, and \$8.76 per month, or 5.5% in the winter. The typical coastal residential customer with basic service that uses 400 kWh per month would see an increase of \$8.90 per month, or 5.5%, in the summer, and \$8.85 per month, or 5.5%, in the winter.
- When comparing rates that reflect the currently effective 2022 rates to the proposed illustrative 2024 GRC Phase 1 rates, the typical inland residential customer with basic service that uses 400 kWh per month would see an increase in their electric bill of \$13.33 per month, or 8.8%, in the summer, and \$13.54 per month, or 8.8% in the winter. The typical coastal residential customer with basic service that uses 400 kWh per month would see an increase in their electric bill of \$13.75 per month, or 8.8%, in the summer and \$13.67 per month, or 8.8%, in the winter.



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**Table JS-1  
SDG&E  
Electric Department Summary of Electric Revenue by Customer Class**

Line No.	Customer Class	Total Revenues (\$Millions)				Line No.
		2023 Expected <sup>1</sup>	2024 GRC Phase 1 <sup>2</sup>	Change <sup>3</sup> (\$)	Change (%)	
1	Residential Small	1,740	1,860	120	6.9%	1
2	Commercial	584	627	43	7.4%	2
3	M/L C&I	1,827	1,937	109	6.0%	3
4	Agriculture	69	73	4	5.9%	4
5	Lighting	24	26	2	8.4%	5
6	System	4,243	4,522	279	6.6%	6

<sup>1</sup> Includes revenues effective 1/1/2022 per AL 3928-E/A/B adjusted for expected 2023 GRC revenue requirements and other revenues expected to be implemented in 2023.

<sup>2</sup> Includes Utility Distribution Company revenues plus Generation/Commodity revenues based on current authorized sales.

<sup>3</sup> Totals may not sum due to rounding.

Line No.	Customer Class	Total Rates (Cents per kWh)				Line No.
		2023 Expected <sup>1</sup> Present	2024 GRC Phase 1 <sup>2</sup> Proposed	Change <sup>3</sup> cents/kWh    %		
1	Residential Small	35.8	38.0	2.3	6.3%	1
2	Commercial	33.4	35.6	2.1	6.4%	2
3	M/L C&I	29.8	31.2	1.4	4.6%	3
4	Agriculture	23.9	25.2	1.3	5.5%	4
5	Lighting	30.4	32.8	2.4	7.9%	5
6	System	32.0	33.8	1.7	5.5%	6

<sup>1</sup> Includes revenues effective 1/1/2022 per AL 3928-E/A adjusted for expected 2023 GRC revenue requirements and other revenues expected to be implemented in 2023.

<sup>2</sup> Includes Utility Distribution Company revenues plus Generation/Commodity revenues based on current authorized sales.

<sup>3</sup> Totals may not sum due to rounding.

Table JS-2 presents the comparison of current effective 2022 revenues and SDG&E's 2024 GRC Phase 1 proposed electric revenues by customer class, as well as the comparison of current effective 2022 rates and SDG&E's proposed 2024 GRC Phase 1 rates by customer class.

As proposed, in 2024 SDG&E's GRC Phase 1 would result in an increase in electric rate revenues of \$442 million, or 10.8%, with a system average rate impact of 2.7 cents/kWh, or 8.6%, compared to current effective 2022 rates.

**Table JS-2**  
**SDG&E**  
**Electric Department Summary of Electric Revenue by Customer Class**

Line No.	Customer Class	Total Revenues (\$Millions)				Line No.
		Current Effective <sup>1</sup>	2024 GRC Phase 1 <sup>2</sup>	Change <sup>3</sup> (\$)	Change (%)	
1	Residential Small	1,670	1,860	190	11.4%	1
2	Commercial	558	627	69	12.3%	2
3	M/L C&I	1,763	1,937	174	9.9%	3
4	Agriculture	66	73	6	9.4%	4
5	Lighting	23	26	3	14.1%	5
6	System	4,080	4,522	442	10.8%	6

<sup>1</sup> Current effective rates 1/1/2022 per AL 3928-E/A.  
<sup>2</sup> Includes Utility Distribution Company revenues plus Generation/Commodity revenues based on current authorized sales.  
<sup>3</sup> Totals may not sum due to rounding.

Line No.	Customer Class	Total Rates (Cents per kWh)				Line No.
		Current Effective <sup>2</sup>	2024 GRC Phase 1 <sup>1</sup>	cents/kWh	%	
1	Residential Small	34.5	38.0	3.5	10.1%	1
2	Commercial	32.2	35.6	3.3	10.3%	2
3	M/L C&I	29.1	31.2	2.1	7.1%	3
4	Agriculture	23.2	25.2	2.0	8.8%	4
5	Lighting	29.0	32.8	3.8	13.1%	5
6	System	31.1	33.7	2.7	8.6%	6

<sup>1</sup> Includes Utility Distribution Company revenues plus Generation/Commodity revenues based on current authorized sales.

<sup>2</sup> Current effective rates 1/1/2022 per AL 3928-E/A/B.

<sup>3</sup> Totals may not sum due to rounding.

**III. RESIDENTIAL CUSTOMER BILL IMPACTS**

Illustrative bill impacts to residential customers of SDG&E’s proposals in this proceeding are presented in Tables JS-3, JS-4, JS-5 and JS-6 of this testimony. Tables JS-3, JS-4, JS-5, and JS-6 reflect monthly electric bill impacts, variable by season, climate zone, and usage level for non-CARE<sup>2</sup> customers.

As shown on Table JS-3, when comparing the as expected 2023 rates that reflect the authorized 2023 GRC revenue requirement to the 2024 GRC proposed rates, the typical inland residential customer with basic service that uses 400 kWh per month, would see an increase of \$8.63 per month, or 5.5%, in the summer, and \$8.76 per month, or 5.5% in the winter under the current residential rate design structure.

**Table JS-3**  
(Inland Customers)

<b>Schedule TOU-DR-1 (Summer Billing Period)</b>						
LINE NO.	ENERGY (KWH) (A)	1/1/2023 Expected PRESENT BILL (\$) (B)	1/1/2024 Expected PROPOSED BILL (\$) (C)	CHANGE (\$) (D)	CHANGE (%) (E)	LINE NO.
1	25	5.34	5.34	0.00	0.0%	1
2	50	14.93	16.01	1.08	7.2%	2
3	75	25.06	26.67	1.61	6.4%	3
4	100	35.19	37.35	2.16	6.1%	4
5	150	55.47	58.71	3.24	5.8%	5
6	200	75.73	80.04	4.31	5.7%	6
7	250	96.01	101.40	5.39	5.6%	7
8	300	116.27	122.74	6.47	5.6%	8
9	350	136.55	144.10	7.55	5.5%	9
10	400	156.81	165.44	8.63	5.5%	10
11	450	181.70	191.65	9.95	5.5%	11
12	500	207.19	218.50	11.31	5.5%	12

<sup>2</sup> California Alternate Rates for Energy (CARE).

13	600	258.20	272.21	14.01	5.4%	13
14	700	309.20	325.93	16.73	5.4%	14
15	800	360.21	379.65	19.44	5.4%	15

**Schedule TOU-DR-1 (Winter Billing Period)**

LINE NO.	ENERGY (KWH) (A)	1/1/2023 Expected PRESENT	1/1/2024 Expected PROPOSED	CHANGE (\$) (D)	CHANGE (%) (E)	LINE NO.
		BILL (\$) (B)	BILL (\$) (C)			
1	25	5.34	5.34	0.00	0.0%	1
2	50	14.91	15.99	1.08	7.2%	2
3	75	25.03	26.65	1.62	6.5%	3
4	100	35.16	37.31	2.15	6.1%	4
5	150	55.42	58.66	3.24	5.8%	5
6	200	75.67	79.98	4.31	5.7%	6
7	250	95.93	101.32	5.39	5.6%	7
8	300	116.18	122.64	6.46	5.6%	8
9	350	136.44	143.98	7.54	5.5%	9
10	400	159.41	168.17	8.76	5.5%	10
11	450	184.90	195.02	10.12	5.5%	11
12	500	210.38	221.86	11.48	5.5%	12
13	600	261.35	275.54	14.19	5.4%	13
14	700	312.33	329.23	16.90	5.4%	14
15	800	363.30	382.92	19.62	5.4%	15

1 As shown on Table JS-4, when comparing the as expected 2023 rates that reflect the  
2 authorized 2023 GRC revenue requirements to the 2024 GRC proposed rates, the typical coastal  
3 residential customer with basic service that uses 400 kWh per month would see an increase of  
4 \$8.90 per month, or 5.5%, in the summer and \$8.85 per month, or 5.5%, in the winter.



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**Table JS-4**  
(Coastal Customers)

<b>Schedule TOU-DR-1 (Summer Billing Period)</b>						
LINE NO.	ENERGY (KWH) (A)	1/1/2023 Expected PRESENT	1/1/2024 Expected PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$) (B)	BILL (\$) (C)	(\$) (D)	(%) (E)	
1	25	5.34	5.34	0.00	0.0%	1
2	50	14.93	16.01	1.08	7.2%	2
3	75	25.06	26.67	1.61	6.4%	3
4	100	35.19	37.35	2.16	6.1%	4
5	150	55.47	58.71	3.24	5.8%	5
6	200	75.73	80.04	4.31	5.7%	6
7	250	96.01	101.40	5.39	5.6%	7
8	300	116.27	122.74	6.47	5.6%	8
9	350	136.55	144.10	7.55	5.5%	9
10	400	161.94	170.84	8.90	5.5%	10
11	450	187.45	197.71	10.26	5.5%	11
12	500	212.95	224.56	11.61	5.5%	12
13	600	263.95	278.28	14.33	5.4%	13
14	700	314.96	332.00	17.04	5.4%	14
15	800	365.96	385.71	19.75	5.4%	15

  

<b>Schedule TOU-DR-1 (Winter Billing Period)</b>						
LINE NO.	ENERGY (KWH) (A)	1/1/2023 Expected PRESENT	1/1/2024 Expected PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$) (B)	BILL (\$) (C)	(\$) (D)	(%) (E)	
1	25	5.34	5.34	0.00	0.0%	1
2	50	14.91	15.99	1.08	7.2%	2
3	75	25.03	26.65	1.62	6.5%	3
4	100	35.16	37.31	2.15	6.1%	4
5	150	55.42	58.66	3.24	5.8%	5
6	200	75.67	79.98	4.31	5.7%	6
7	250	95.93	101.32	5.39	5.6%	7
8	300	116.18	122.64	6.46	5.6%	8
9	350	136.44	143.98	7.54	5.5%	9
10	400	160.98	169.83	8.85	5.5%	10
11	450	186.47	196.68	10.21	5.5%	11
12	500	211.95	223.51	11.56	5.5%	12

13	600	262.92	277.20	14.28	5.4%	13
14	700	313.90	330.88	16.98	5.4%	14
15	800	364.87	384.57	19.70	5.4%	15

1 As shown on Table JS-5, when comparing the currently effective 2022 rates to the 2024  
2 GRC proposed rates, the typical inland residential customer with basic service that uses 400 kWh  
3 per month, would see an increase of \$13.33 per month, or 8.8%, in the summer, and \$13.54 per  
4 month, or 8.8%, in the winter under the current residential rate design structure.

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**Table JS-5**  
(Inland Customers)

<b>Schedule TOU-DR-1 (Summer Billing Period)</b>						
LINE NO.	ENERGY (KWH) (A)	1/1/2022	1/1/2024	CHANGE (\$) (D)	CHANGE (%) (E)	LINE NO.
		PRESENT BILL (\$) (B)	Expected PROPOSED BILL (\$) (C)			
1	25	5.34	5.34	\$0.00	0.0%	1
2	50	14.34	16.01	1.67	11.6%	2
3	75	24.17	26.67	2.50	10.3%	3
4	100	34.02	37.35	3.33	9.8%	4
5	150	53.71	58.71	5.00	9.3%	5
6	200	73.38	80.04	6.66	9.1%	6
7	250	93.08	101.40	8.32	8.9%	7
8	300	112.75	122.74	9.99	8.9%	8
9	350	132.44	144.10	11.66	8.8%	9
10	400	152.11	165.44	13.33	8.8%	10
11	450	176.28	191.65	15.37	8.7%	11
12	500	201.03	218.50	17.47	8.7%	12
13	600	250.55	272.21	21.66	8.6%	13
14	700	300.08	325.93	25.85	8.6%	14
15	800	349.60	379.65	30.05	8.6%	15

<b>Schedule TOU-DR-1 (Winter Billing Period)</b>						
LINE NO.	ENERGY (KWH) (A)	1/1/2022	1/1/2024	CHANGE (\$) (D)	CHANGE (%) (E)	LINE NO.
		PRESENT BILL (\$) (B)	Expected PROPOSED BILL (\$) (C)			
1	25	5.34	5.34	0.00	0.0%	1
2	50	14.33	15.99	1.66	11.6%	2

3	75	24.15	26.65	2.50	10.4%	3
4	100	33.99	37.31	3.32	9.8%	4
5	150	53.66	58.66	5.00	9.3%	5
6	200	73.32	79.98	6.66	9.1%	6
7	250	93.00	101.32	8.32	8.9%	7
8	300	112.66	122.64	9.98	8.9%	8
9	350	132.33	143.98	11.65	8.8%	9
10	400	154.63	168.17	13.54	8.8%	10
11	450	179.39	195.02	15.63	8.7%	11
12	500	204.13	221.86	17.73	8.7%	12
13	600	253.62	275.54	21.92	8.6%	13
14	700	303.11	329.23	26.12	8.6%	14
15	800	352.61	382.92	30.31	8.6%	15

1 As shown on Table JS-6, when comparing the currently effective 2022 rates to the 2024  
2 GRC proposed rates, the typical coastal residential customer with basic service that uses 400  
3 kWh per month would see an increase of \$13.75 per month, or 8.8%, in the summer and \$13.67  
4 per month, or 8.8%, in the winter.

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**Table JS-6**  
(Coastal Customer)

<b>Schedule TOU-DR-1 (Summer Billing Period)</b>						
LINE NO.	ENERGY (KWH) (A)	1/1/2022	1/1/2024	CHANGE (\$) (D)	CHANGE (%) (E)	LINE NO.
		PRESENT BILL (\$) (B)	Expected PROPOSED BILL (\$) (C)			
1	25	5.34	5.34	\$0.00	0.0%	1
2	50	14.34	16.01	1.67	11.6%	2
3	75	24.17	26.67	2.50	10.3%	3
4	100	34.02	37.35	3.33	9.8%	4
5	150	53.71	58.71	5.00	9.3%	5
6	200	73.38	80.04	6.66	9.1%	6
7	250	93.08	101.40	8.32	8.9%	7
8	300	112.75	122.74	9.99	8.9%	8
9	350	132.44	144.10	11.66	8.8%	9
10	400	157.09	170.84	13.75	8.8%	10
11	450	181.86	197.71	15.85	8.7%	11
12	500	206.62	224.56	17.94	8.7%	12
13	600	256.14	278.28	22.14	8.6%	13
14	700	305.67	332.00	26.33	8.6%	14
15	800	355.19	385.71	30.52	8.6%	15

**Schedule TOU-DR-1 (Winter Billing Period)**

LINE NO.	ENERGY (KWH) (A)	1/1/2022	1/1/2024	CHANGE (\$) (D)	CHANGE (%) (E)	LINE NO.
		PRESENT BILL (\$) (B)	Expected PROPOSED BILL (\$) (C)			
1	25	5.34	5.34	0.00	0.0%	1
2	50	14.33	15.99	1.66	11.6%	2
3	75	24.15	26.65	2.50	10.4%	3
4	100	33.99	37.31	3.32	9.8%	4
5	150	53.66	58.66	5.00	9.3%	5
6	200	73.32	79.98	6.66	9.1%	6
7	250	93.00	101.32	8.32	8.9%	7
8	300	112.66	122.64	9.98	8.9%	8
9	350	132.33	143.98	11.65	8.8%	9
10	400	156.16	169.83	13.67	8.8%	10
11	450	180.91	196.68	15.77	8.7%	11
12	500	205.65	223.51	17.86	8.7%	12
13	600	255.14	277.20	22.06	8.6%	13
14	700	304.64	330.88	26.24	8.6%	14
15	800	354.13	384.57	30.44	8.6%	15

1 **IV. CONCLUSION**

2 This concludes my prepared direct testimony.

1 **V. WITNESS QUALIFICATIONS**

2 My name is Jeff P. Stein and my business address is 8330 Century Park Court, San  
3 Diego, California 92123. I am the Manager of Customer Pricing at SDG&E. My responsibilities  
4 include the determination of revenue allocation and electric rate design methods, analysis of  
5 ratemaking theories, and preparation of various regulatory filings.

6 I received a Bachelor of Science degree in Business Administration with an emphasis in  
7 Accounting from San Diego State University in 2003.

8 Upon receiving my Bachelor's degree, I was employed by a Public Accounting and  
9 Advisory services firm. After two years of public accounting, I joined Sempra Energy in 2006  
10 and have held various positions of increasing responsibility in Sempra Energy's Internal Audit  
11 Department, SDG&E's Business Controls Department, SDG&E's Accounting Operations, and  
12 SDG&E's Transmission Revenue Department.

13 I have previously submitted testimony before the CPUC and before the FERC.

**APPENDIX A**

**GLOSSARY OF TERMS**

**APPENDIX A**  
**Glossary of Terms**

<b>Acronyms</b>	<b>Definition</b>
CARE	California Alternate Rates for Energy
GRC	General Rate Case
M/L C&I	Medium and Large Commercial & Industrial
OP	Ordering Paragraph
SDG&E	San Diego Gas & Electric
TY	Test Year

**SDG&E 2024 GRC Testimony Revision Log –August 2022**

<b>Exhibit</b>	<b>Witness</b>	<b>Page</b>	<b>Line or Table</b>	<b>Revision Detail</b>
SDG&E-48	Jeff Stein	JPS-ii	Summary	Changed “6.7%” to “6.6%” and “11.0%” to “10.8%” Changed “\$8.84” to “\$8.63”, “5.6%” to “5.5%”, “\$8.97” to “\$8.76”, and “5.6%” to “5.5%” Changed “\$9.11” to “\$8.90”, “5.6%” to “5.5%”, “\$9.06” to “\$8.85”, and “5.6%” to “5.5%” Changed “13.54” to “\$13.33”, “8.9%” to “8.8%”, “\$13.75” to “\$13.54”, and “8.9%” to “8.8%” Changed “\$13.96” to “\$13.75”, “8.9%” to “8.8%”, “\$13.88” to “\$13.67”, and “8.9%” to “8.8%”
SDG&E-48	Jeff Stein	JPS-1	23	Changed “\$286 million, or 6.7%” to “\$279 million or 6.6%”
SDG&E-48	Jeff Stein	JPS-1	23	Changed “1.8 cents/kWh, or 5.6%” to “1.7 cents/kWh, or 5.5%”
SDG&E-48	Jeff Stein	JPS-2	Table JS-1	Revised Table
SDG&E-48	Jeff Stein	JPS-3	5	Changed “\$449 million, or 11.0” to “442 million, or 10.8%”
SDG&E-48	Jeff Stein	JPS-3	6	Changed “8.8%” to “8.6%”
SDG&E-48	Jeff Stein	JPS-3	Table JS-2	Revised Table
SDG&E-48	Jeff Stein	JPS-4	9	Changed “\$8.84 per month, or 5.6%” to “\$8.63 per month, or 5.5%”
SDG&E-48	Jeff Stein	JPS-4	9	Changed “\$8.97 per month, or 5.6%” to “\$8.76 per month, or 5.5%”
SDG&E-48	Jeff Stein	JPS-4	Table JS-3	Revised Table
SDG&E-48	Jeff Stein	JPS-5	4	Changed “\$9.11 per month, or 5.6%” to “\$8.90 per month, or 5.5%”
SDG&E-48	Jeff Stein	JPS-5	4	Changed “\$9.06 per month, or 5.6%” to “\$8.85 per month, or 5.5%”
SDG&E-48	Jeff Stein	JPS-6	Table JS-4	Revised Table
SDG&E 48	Jeff Stein	JPS-7	3	Changed “\$13.54 per month, or 8.9%” to “\$13.33 per month, or 8.8%”
SDG&E 48	Jeff Stein	JPS-7	3-4	Changed “\$13.75 per month, or 8.9%” to “\$13.54 per month, or 8.8%”
SDG&E 48	Jeff Stein	JPS-7	Table JS-5	Revised Table
SDG&E 48	Jeff Stein	JPS-8	3	Changed “\$13.96 per month, or 8.9%” to “\$13.75 per month, or 8.8%”
SDG&E 48	Jeff Stein	JPS-8	3-4	Changed “\$13.88 per month, or 8.9%” to “\$13.67 per month, or 8.8%”
SDG&E 48	Jeff Stein	JPS-8	Table JS-6	Revised Table