

KAUAI ISLAND UTILITY COOPERATIVE

DOCKET NO. 2022-0208

ATTACHMENT DK-504

(6 PAGES)

KIUC Rates Comparison - Test Year 2023

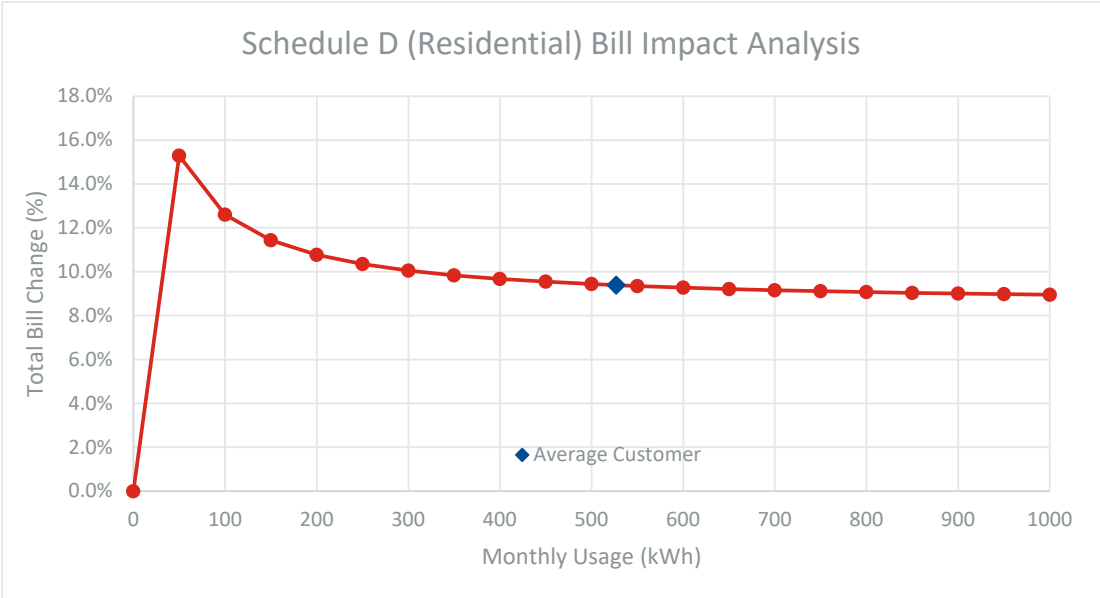
	(a) Present Rates	(b) Proposed Rates	(c) (b) - (a) Unit Change	(d) (c) / (a) % Change
Schedule "D" (Residential Service)				
Customer Charge (\$/Month)	\$ 10.58	\$ 13.50	\$ 2.92	28%
Total Energy Charge (\$/kWh)	\$ 0.38004	\$ 0.41207	\$ 0.03203	8%
<i>Non Fuel Energy Charge (\$/kWh)</i>	\$ 0.15600	\$ 0.21019	\$ 0.05419	35%
<i>Fuel & PP Energy Charge (\$/kWh)</i>	\$ 0.19143	\$ 0.20188	\$ 0.01045	5%
<i>Energy Rate Adjustment Clause (ERAC) (\$/kWh)</i>	\$ 0.03261	\$ -	\$ (0.03261)	-100%
Minimum Bill (\$/Month)	\$ 13.50	\$ 13.50	\$ -	0%
Schedule "G" (General Light and Power Service)				
Customer Charge (\$/Month)	\$ 23.82	\$ 25.00	\$ 1.18	5%
Total Energy Charge (\$/kWh)	\$ 0.39029	\$ 0.42787	\$ 0.03758	10%
<i>Non Fuel Energy Charge (\$/kWh)</i>	\$ 0.16626	\$ 0.22599	\$ 0.05973	36%
<i>Fuel & PP Energy Charge (\$/kWh)</i>	\$ 0.19143	\$ 0.20188	\$ 0.01045	5%
<i>ERAC (\$/kWh)</i>	\$ 0.03260	\$ -	\$ (0.03260)	-100%
Minimum Bill (\$/Month)	\$ 26.45	\$ 25.00	\$ (1.45)	-5%
Schedule "J" (General Light and Power Service)				
Customer Charge (\$/Month)	\$ 39.69	\$ 40.00	\$ 0.31	1%
Total Energy Charge (\$/kWh)	\$ 0.35646	\$ 0.38644	\$ 0.02998	8%
<i>Non Fuel Energy Charge (\$/kWh)</i>	\$ 0.13247	\$ 0.18456	\$ 0.05209	39%
<i>Fuel & PP Energy Charge (\$/kWh)</i>	\$ 0.19143	\$ 0.20188	\$ 0.01045	5%
<i>ERAC (\$/kWh)</i>	\$ 0.03256	\$ -	\$ (0.03256)	-100%
Demand Charge (\$/kW)	\$ 6.62	\$ 8.28	\$ 1.66	25%
Minimum Bill (\$/Month)	\$ 198.42	[cust + dmd]		
Schedule "L" (Large Power Primary Service)*				
Customer Charge (\$/Month)	\$ 355.08	\$ 355.00	\$ (0.08)	0%
Total Energy Charge (\$/kWh)	\$ 0.33322	\$ 0.36737	\$ 0.03415	10%
<i>Non Fuel Energy Charge (\$/kWh)</i>	\$ 0.10807	\$ 0.16549	\$ 0.05742	53%
<i>Fuel & PP Energy Charge (\$/kWh)</i>	\$ 0.19143	\$ 0.20188	\$ 0.01045	5%
<i>ERAC (\$/kWh)</i>	\$ 0.03371	\$ -	\$ (0.03371)	-100%
Demand Charge (\$/kW)	\$ 13.94	\$ 14.90	\$ 0.96	7%
Minimum Bill (\$/Month)	[cust + dmd]	[cust + dmd]		
Schedule "P" (Large Power Secondary Service)*				
Customer Charge (\$/Month)	\$ 369.38	\$ 355.00	\$ (14.38)	-4%
Total Energy Charge (\$/kWh)	\$ 0.34291	\$ 0.36737	\$ 0.02446	7.1%
<i>Non Fuel Energy Charge (\$/kWh)</i>	\$ 0.11792	\$ 0.16549	\$ 0.04757	40%
<i>Fuel & PP Energy Charge (\$/kWh)</i>	\$ 0.19143	\$ 0.20188	\$ 0.01045	5%
<i>ERAC (\$/kWh)</i>	\$ 0.03356	\$ -	\$ (0.03356)	-100%
Demand Charge (\$/kW)	\$ 11.14	\$ 14.90	\$ 3.76	34%
Minimum Bill (\$/Month)	[cust + dmd]	[cust + dmd]		
Schedule "SL" (Street Lighting)				
Fixture Charge (\$/Month, by type)				
Standard incandescent <= 4,000 lumen	\$ 3.63	\$ 4.54	\$ 0.91	25%
Standard mercury vapor <= 21,000 lumen	\$ 6.25	\$ 7.81	\$ 1.56	25%
Sodium vapor, <= 100 watt	\$ 6.25	\$ 7.81	\$ 1.56	25%
Sodium vapor, 101-150 watt	\$ 6.25	\$ 7.81	\$ 1.56	25%
Sodium vapor, 151-200 watt	\$ 6.47	\$ 8.09	\$ 1.62	25%
Sodium vapor, 201-250 watt	\$ 6.47	\$ 8.09	\$ 1.62	25%
Sodium vapor, 251+ watt	\$ 6.75	\$ 8.44	\$ 1.69	25%
LED, <= 45 watt	\$ 8.18	\$ 10.23	\$ 2.05	25%
LED, 46-98 watt	\$ 8.48	\$ 10.60	\$ 2.12	25%
LED, 99+ watt	\$ 8.57	\$ 10.71	\$ 2.14	25%
Total Energy Charge (\$/kWh)	\$ 0.44785	\$ 0.51354	\$ 0.06569	15%
<i>Non Fuel Energy Charge (\$/kWh)</i>	\$ 0.22387	\$ 0.31166	\$ 0.08779	39%
<i>Fuel & PP Energy Charge (\$/kWh)</i>	\$ 0.19143	\$ 0.20188	\$ 0.01045	5%
<i>ERAC (\$/kWh)</i>	\$ 0.03255	\$ -	\$ (0.03255)	-100%
Minimum Bill (\$/Month)	[fixture charge]	[fixture charge]		0%

* Proposed rates are for the new combined class, Schedule "LP" (Large Power Service)

Schedule D (Residential) Bill Impact Analysis

	Present Rates	Proposed Rates
Customer Charge (\$/Month)	\$ 10.58	\$ 13.50
Energy Charge (\$/kWh)	\$ 0.38004	\$ 0.41207
Minimum Bill (\$/Month)	\$ 13.50	\$ 13.50

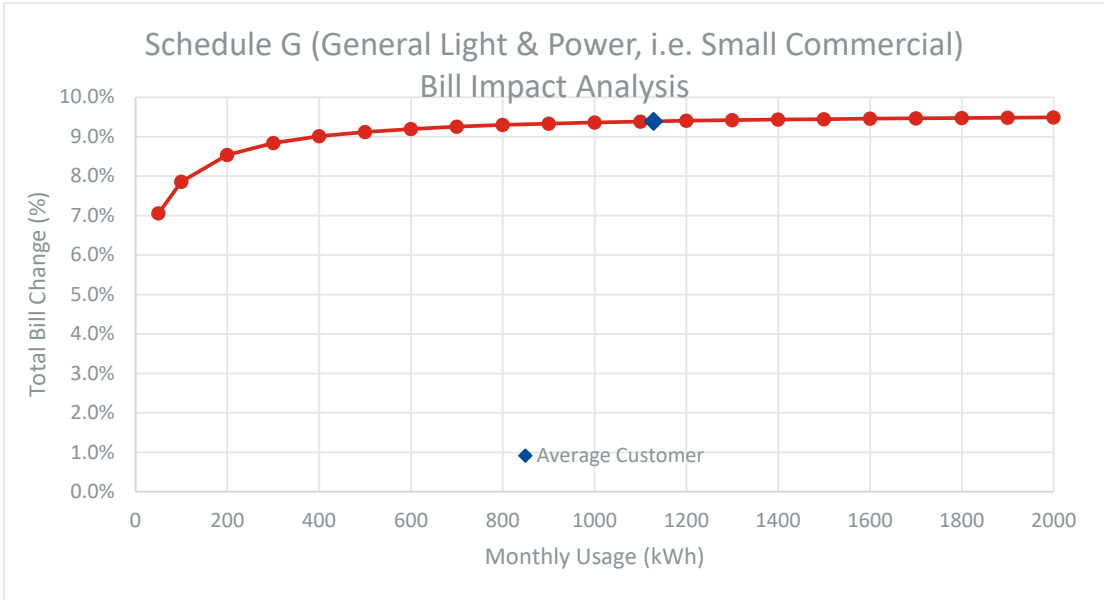
kWh Usage	Total Monthly Bill (\$)		Change		
	Present Rates	Proposed Rates	\$	%	
0	\$ 13.50	\$ 13.50	\$ -	0.0%	
50	\$ 29.58	\$ 34.10	\$ 4.52	15.3%	
100	\$ 48.58	\$ 54.71	\$ 6.12	12.6%	
150	\$ 67.59	\$ 75.31	\$ 7.72	11.4%	
200	\$ 86.59	\$ 95.91	\$ 9.33	10.8%	
250	\$ 105.59	\$ 116.52	\$ 10.93	10.3%	
300	\$ 124.59	\$ 137.12	\$ 12.53	10.1%	
350	\$ 143.60	\$ 157.72	\$ 14.13	9.8%	
400	\$ 162.60	\$ 178.33	\$ 15.73	9.7%	
450	\$ 181.60	\$ 198.93	\$ 17.33	9.5%	
500	\$ 200.60	\$ 219.54	\$ 18.93	9.4%	
550	\$ 219.60	\$ 240.14	\$ 20.53	9.4%	
600	\$ 238.61	\$ 260.74	\$ 22.14	9.3%	
650	\$ 257.61	\$ 281.35	\$ 23.74	9.2%	
700	\$ 276.61	\$ 301.95	\$ 25.34	9.2%	
750	\$ 295.61	\$ 322.55	\$ 26.94	9.1%	
800	\$ 314.61	\$ 343.16	\$ 28.54	9.1%	
850	\$ 333.62	\$ 363.76	\$ 30.14	9.0%	
900	\$ 352.62	\$ 384.36	\$ 31.74	9.0%	
950	\$ 371.62	\$ 404.97	\$ 33.35	9.0%	
1000	\$ 390.62	\$ 425.57	\$ 34.95	8.9%	
"Average" Customer	527	\$ 210.85	\$ 230.65	\$ 19.80	9.4%



Schedule G (General Light & Power, i.e. Small Commercial) Bill Impact Analysis

	Present Rates	Proposed Rates
Customer Charge (\$/Month)	\$ 23.82	\$ 25.00
Energy Charge (\$/kWh)	\$ 0.39029	\$ 0.42787
Minimum Bill (\$/Month)	\$ 26.45	\$ 25.00

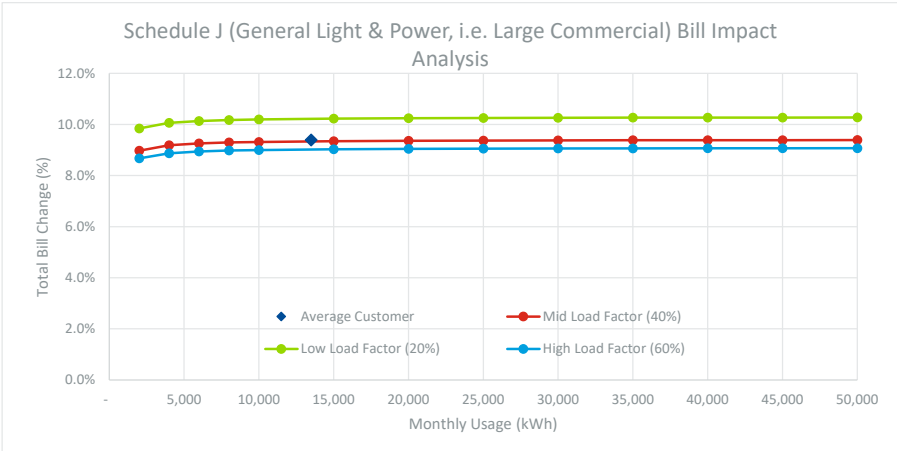
kWh Usage	Total Monthly Bill (\$)		Change		
	Present Rates	Proposed Rates	\$	%	
50	\$ 43.33	\$ 46.39	\$ 3.06	7.1%	
100	\$ 62.85	\$ 67.79	\$ 4.94	7.9%	
200	\$ 101.88	\$ 110.57	\$ 8.70	8.5%	
300	\$ 140.91	\$ 153.36	\$ 12.45	8.8%	
400	\$ 179.94	\$ 196.15	\$ 16.21	9.0%	
500	\$ 218.97	\$ 238.94	\$ 19.97	9.1%	
600	\$ 257.99	\$ 281.72	\$ 23.73	9.2%	
700	\$ 297.02	\$ 324.51	\$ 27.49	9.3%	
800	\$ 336.05	\$ 367.30	\$ 31.24	9.3%	
900	\$ 375.08	\$ 410.08	\$ 35.00	9.3%	
1000	\$ 414.11	\$ 452.87	\$ 38.76	9.4%	
1100	\$ 453.14	\$ 495.66	\$ 42.52	9.4%	
1200	\$ 492.17	\$ 538.44	\$ 46.27	9.4%	
1300	\$ 531.20	\$ 581.23	\$ 50.03	9.4%	
1400	\$ 570.23	\$ 624.02	\$ 53.79	9.4%	
1500	\$ 609.26	\$ 666.81	\$ 57.55	9.4%	
1600	\$ 648.29	\$ 709.59	\$ 61.31	9.5%	
1700	\$ 687.31	\$ 752.38	\$ 65.06	9.5%	
1800	\$ 726.34	\$ 795.17	\$ 68.82	9.5%	
1900	\$ 765.37	\$ 837.95	\$ 72.58	9.5%	
2000	\$ 804.40	\$ 880.74	\$ 76.34	9.5%	
"Average" Customer	1,129	\$ 464.37	\$ 507.96	\$ 43.60	9.4%



Schedule J (General Light & Power, i.e. Large Commercial) Bill Impact Analysis

	Present Rates	Proposed Rates
Customer Charge (\$/Month)	\$ 39.69	\$ 40.00
Energy Charge (\$/kWh)	\$ 0.35646	\$ 0.38644
Demand Charge (\$/kW)	\$ 6.62	\$ 8.28
Minimum Bill (\$/Month)	\$ 198.42	[cust + dmd]

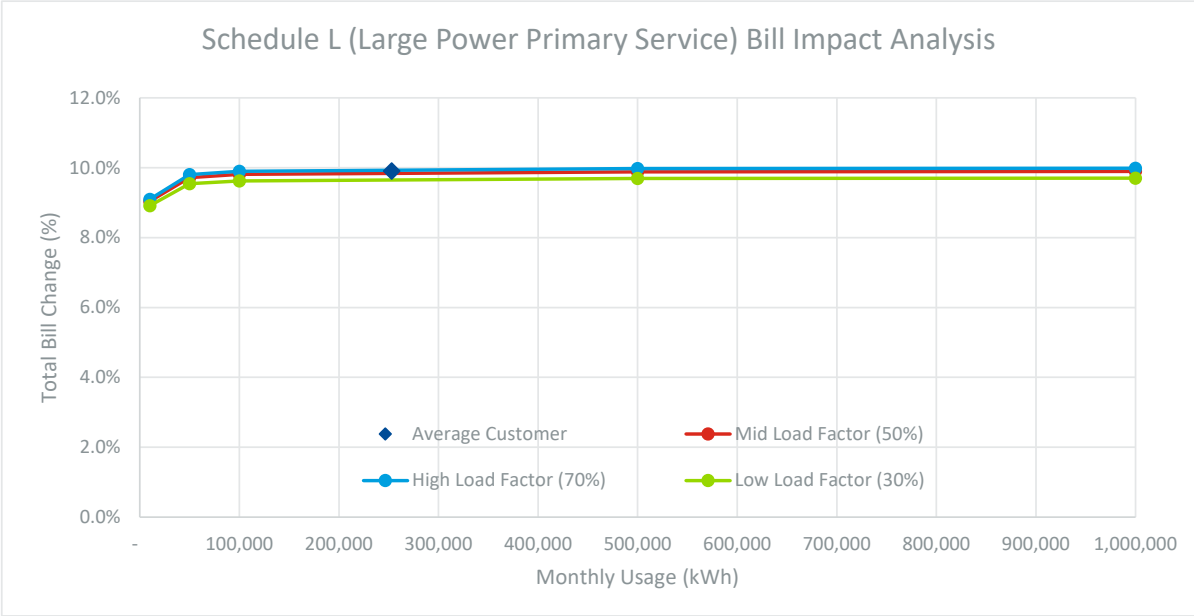
kWh Usage	kW Demand	Total Monthly Bill (\$)		Change	
		Present Rates	Proposed Rates	\$	%
Mid Load Factor (40%)					
2000	6.8	\$ 798	\$ 869	\$ 72	9.0%
4000	13.7	\$ 1,556	\$ 1,699	\$ 143	9.2%
6000	20.5	\$ 2,314	\$ 2,528	\$ 214	9.3%
8000	27.4	\$ 3,073	\$ 3,358	\$ 286	9.3%
10000	34.2	\$ 3,831	\$ 4,188	\$ 357	9.3%
15000	51.4	\$ 5,727	\$ 6,262	\$ 535	9.3%
20000	68.5	\$ 7,622	\$ 8,336	\$ 714	9.4%
25000	85.6	\$ 9,518	\$ 10,410	\$ 892	9.4%
30000	102.7	\$ 11,413	\$ 12,484	\$ 1,070	9.4%
35000	119.9	\$ 13,310	\$ 14,558	\$ 1,249	9.4%
40000	137.0	\$ 15,205	\$ 16,632	\$ 1,427	9.4%
45000	154.1	\$ 17,101	\$ 18,706	\$ 1,605	9.4%
50000	171.2	\$ 18,996	\$ 20,780	\$ 1,784	9.4%
Low Load Factor (20%)					
2000	13.7	\$ 843	\$ 926	\$ 83	9.8%
4000	27.4	\$ 1,647	\$ 1,813	\$ 166	10.1%
6000	41.1	\$ 2,451	\$ 2,699	\$ 248	10.1%
8000	54.8	\$ 3,254	\$ 3,585	\$ 331	10.2%
10000	68.5	\$ 4,058	\$ 4,472	\$ 414	10.2%
15000	102.7	\$ 6,066	\$ 6,687	\$ 621	10.2%
20000	137.0	\$ 8,076	\$ 8,903	\$ 827	10.2%
25000	171.2	\$ 10,085	\$ 11,119	\$ 1,034	10.3%
30000	205.5	\$ 12,094	\$ 13,335	\$ 1,241	10.3%
35000	239.7	\$ 14,103	\$ 15,550	\$ 1,448	10.3%
40000	274.0	\$ 16,112	\$ 17,766	\$ 1,654	10.3%
45000	308.2	\$ 18,121	\$ 19,982	\$ 1,861	10.3%
50000	342.5	\$ 20,130	\$ 22,198	\$ 2,068	10.3%
High Load Factor (60%)					
2000	4.6	\$ 783	\$ 851	\$ 68	8.7%
4000	9.1	\$ 1,526	\$ 1,661	\$ 135	8.9%
6000	13.7	\$ 2,269	\$ 2,472	\$ 203	8.9%
8000	18.3	\$ 3,013	\$ 3,283	\$ 271	9.0%
10000	22.8	\$ 3,755	\$ 4,093	\$ 338	9.0%
15000	34.2	\$ 5,613	\$ 6,120	\$ 507	9.0%
20000	45.7	\$ 7,471	\$ 8,147	\$ 676	9.0%
25000	57.1	\$ 9,329	\$ 10,174	\$ 845	9.1%
30000	68.5	\$ 11,187	\$ 12,200	\$ 1,013	9.1%
35000	79.9	\$ 13,045	\$ 14,227	\$ 1,182	9.1%
40000	91.3	\$ 14,902	\$ 16,254	\$ 1,351	9.1%
45000	102.7	\$ 16,760	\$ 18,280	\$ 1,520	9.1%
50000	114.2	\$ 18,619	\$ 20,308	\$ 1,689	9.1%
"Average" Customer (Load Factor = 38%)					
13,489	49	\$ 5,171	\$ 5,657	\$ 486	9.4%



Schedule L (Large Power Primary Service) Bill Impact Analysis

	Present Rates (L)	Proposed Rates (LP)
Customer Charge (\$/Month)	\$ 355.08	\$ 355.00
Energy Charge (\$/kWh)	\$ 0.33322	\$ 0.36737
Demand Charge (\$/kW)	\$ 13.94	\$ 14.90
Minimum Bill (\$/Month)	[cust + dmd]	[cust + dmd]

kWh Usage	kW Demand	Total Monthly Bill (\$)		Change	
		Present Rates	Proposed Rates	\$	%
Mid Load Factor (50%)					
10,000	27.4	\$ 4,069	\$ 4,437	\$ 368	9.0%
50,000	137.0	\$ 18,926	\$ 20,765	\$ 1,839	9.7%
100,000	274.0	\$ 37,496	\$ 41,175	\$ 3,678	9.8%
500,000	1,369.9	\$ 186,060	\$ 204,452	\$ 18,392	9.9%
1,000,000	2,739.7	\$ 371,763	\$ 408,547	\$ 36,784	9.9%
Low Load Factor (30%)					
10,000	45.7	\$ 4,324	\$ 4,710	\$ 385	8.9%
50,000	228.3	\$ 20,198	\$ 22,125	\$ 1,927	9.5%
100,000	456.6	\$ 40,042	\$ 43,895	\$ 3,854	9.6%
500,000	2,283.1	\$ 198,790	\$ 218,058	\$ 19,269	9.7%
1,000,000	4,566.2	\$ 397,224	\$ 435,761	\$ 38,537	9.7%
High Load Factor (70%)					
10,000	19.6	\$ 3,960	\$ 4,321	\$ 360	9.1%
50,000	97.8	\$ 18,379	\$ 20,181	\$ 1,801	9.8%
100,000	195.7	\$ 36,405	\$ 40,008	\$ 3,603	9.9%
500,000	978.5	\$ 180,604	\$ 198,620	\$ 18,016	10.0%
1,000,000	1,956.9	\$ 360,851	\$ 396,883	\$ 36,032	10.0%
"Average" Customer (Load Factor = 57%)					
252,928	607	\$ 93,097	\$ 102,318	\$ 9,221	9.9%



Schedule P (Large Power Secondary Service) Bill Impact Analysis

	Present Rates (P)	Proposed Rates (LP)
Customer Charge (\$/Month)	\$ 369.38	\$ 355.00
Energy Charge (\$/kWh)	\$ 0.34291	\$ 0.36737
Demand Charge (\$/kW)	\$ 11.14	\$ 14.90
Minimum Bill (\$/Month)	[cust + dmd]	[cust + dmd]

kWh Usage	kW Demand	Total Monthly Bill (\$)		Change	
		Present Rates	Proposed Rates	\$	%
Mid Load Factor (50%)					
10,000	27.4	\$ 4,104	\$ 4,437	\$ 333	8.1%
25,000	68.5	\$ 9,705	\$ 10,560	\$ 855	8.8%
50,000	137.0	\$ 19,041	\$ 20,765	\$ 1,724	9.1%
75,000	205.5	\$ 28,377	\$ 30,970	\$ 2,593	9.1%
100,000	274.0	\$ 37,713	\$ 41,175	\$ 3,462	9.2%
200,000	547.9	\$ 75,056	\$ 81,993	\$ 6,937	9.2%
300,000	821.9	\$ 112,399	\$ 122,812	\$ 10,413	9.3%
Low Load Factor (30%)					
10,000	45.7	\$ 4,308	\$ 4,710	\$ 402	9.3%
25,000	114.2	\$ 10,214	\$ 11,241	\$ 1,026	10.0%
50,000	228.3	\$ 20,058	\$ 22,125	\$ 2,067	10.3%
75,000	342.5	\$ 29,903	\$ 33,011	\$ 3,108	10.4%
100,000	456.6	\$ 39,747	\$ 43,895	\$ 4,148	10.4%
200,000	913.2	\$ 79,125	\$ 87,436	\$ 8,311	10.5%
300,000	1,369.9	\$ 118,504	\$ 130,978	\$ 12,473	10.5%
High Load Factor (70%)					
10,000	19.6	\$ 4,017	\$ 4,321	\$ 304	7.6%
25,000	48.9	\$ 9,487	\$ 10,268	\$ 781	8.2%
50,000	97.8	\$ 18,605	\$ 20,181	\$ 1,576	8.5%
75,000	146.8	\$ 27,723	\$ 30,095	\$ 2,372	8.6%
100,000	195.7	\$ 36,841	\$ 40,008	\$ 3,167	8.6%
200,000	391.4	\$ 73,312	\$ 79,661	\$ 6,349	8.7%
300,000	587.1	\$ 109,784	\$ 119,314	\$ 9,530	8.7%
"Average" Customer (Load Factor = 50%)					
83,495	230	\$ 31,567	\$ 34,461	\$ 2,894	9.2%

