



March 29, 2023

The Honorable Chair and Members
of the Hawai'i Public Utilities Commission
Kekuanao'a Building, First Floor
465 South King Street
Honolulu, Hawai'i 96813

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Recovery Factor for April 2023

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light" or "Company") Energy Cost Recovery factor for April 2023 is 24.141 cents per kilowatt-hour ("kWh"), a decrease of 1.510 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$228.04, a decrease of \$7.72 compared to rates effective March 1, 2023. The decrease in the residential bill is due to the decrease in the Energy Cost Recovery Factor (-\$7.55) and decrease in the Purchased Power Adjustment Clause rate (-\$0.17).

Hawai'i Electric Light's fuel composite cost of generation decreased 99.73 cents per million BTU to 1,912.37 cents per million BTU. The composite cost of distributed generation decreased (-0.345) cents per kWh to 27.156 cents per kWh. The composite cost of purchased energy decreased 0.903 cents per kWh to 17.267 cents per kWh.

The attached sheets set forth the energy cost recovery factor in cents per kWh for each rate schedule that is applicable for pro rata use beginning April 1, 2023.

Very truly yours,

/s/ Dean K. Matsuura

Dean K. Matsuura
Director, Regulatory Rate Proceedings

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>3/01/23</u>	<u>4/01/23</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	2,012.10	1,912.37	(99.73)
Dispersed Generation Energy, ¢/kWh	27.501	27.156	(0.345)
Purchased Energy, ¢/kWh	18.170	17.267	(0.903)
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	25.651	24.141	(1.510)
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	25.651	24.141	(1.510)
Residential Customer with:			
500 KWH Consumption - \$/Bill	235.76	\$228.04	(\$7.72)
600 KWH Consumption - \$/Bill	282.37	\$273.11	(\$9.26)

HAWAII ELECTRIC LIGHT COMPANY, INC.
ENERGY COST RECOVERY (ECR) FILING

ENERGY COST RECOVERY (ECR) FILING - April 1, 2023 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	April 1, 2023
2	Supercedes Factors of	March 1, 2023

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT			
FUEL PRICES, ¢/mmbtu			
3			
4	Hill Industrial		1,620.76
5	Puna Industrial		1,645.32
6	Keahole Diesel		2,389.77
6a	Keahole ULSD		2,687.34
7	Waimea ULSD Diesel		2,661.63
8	Hilo Diesel		2,331.57
8a	Hilo (Kanoelehua) ULSD Diesel ¹		2,626.15
9	Puna Diesel		2,353.98
10	Wind		0.00
11	Hydro		0.00
BTU MIX, %			
12			
13	Hill Industrial		40.132
14	Puna Industrial		12.473
15	Keahole Diesel		36.154
15a	Keahole ULSD		0.308
16	Waimea ULSD Diesel		0.307
17	Hilo Diesel		0.280
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.288
18	Puna Diesel		6.889
19	Wind		0.000
20	Hydro		3.169
			100.0000
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,912.37
22	% Input to System kWh Mix		55.939
EFFICIENCY FACTOR, mmbtu/kWh			
	(A)	(B)	(C) (D)
			Percent of
			Centri Stn +
			Wind/Hydro
			Weighted
	Fuel Type	Eff Factor	Eff Factor
		1.7319	
23	Industrial	0.014683	52.605 0.007724
24	Diesel	0.011226	44.226 0.004965
25	Other	0.012514	3.169 0.000397
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)		100.0000
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]		0.0130860
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))		13.99889
28	BASE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/mmbtu		0.00
29	Base % Input to Sys kWh Mix		0.00
30	Efficiency Factor, mmbtu/kwh		0.000000
31	WEIGHTED BASE CENTRAL STATION + WIND/HYDRO GENERATION COST ¢/kWh (Lines (28 x 29 x 30))		0.00000
32	COST LESS BASE (Line 27 - 31)		13.99889
33	Revenue Tax Req Multiplier		1.0975
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))		15.36378

DG ENERGY COMPONENT		
35	COMPOSITE COST OF DG ENERGY, ¢/kWh	27.156
36	% Input to System kWh Mix	0.093
37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.02525
38	BASE DG ENERGY COMPOSITE COST	0.000
39	Base % Input to System kWh Mix	0.00
40	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 38 x 39)	0.00000
41	Cost Less Base (Line 37 - 40)	0.02525
42	Loss Factor	1.062
43	Revenue Tax Req Multiplier	1.0975
44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.02943

SUMMARY OF		
TOTAL GENERATION FACTOR, ¢/kWh		
45	Cntrl Stn+Wind/Hydro (line 34)	15.36378
46	DG (line 44)	0.02943
47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	15.39321

¹ Hilo ULSD same location as Kanoelehua ULSD

Hawaii Electric Light Company, Inc.
FUEL OIL INVENTORY PRICES FOR April 1, 2023

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	102.1078	102.1078
Land Transportation Cost - \$/BBL	--	1.5473
Industrial Costs For Filing - \$/BBL	102.1078	103.6552
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	1,620.76	1,645.32

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	135.1271	135.1271	135.1271
Land Transportation Cost - \$/BBL	4.9133	2.8165	1.5031
Diesel Costs For Filing - \$/BBL	140.0403	137.9435	136.6302
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	2,389.77	2,353.98	2,331.57

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	148.9543	148.9543	148.9543	148.9543
Land Transportation Cost - \$/BBL	5.0304	3.5570	1.5239	-
ULSD Costs For Filing - \$/BBL	153.9847	152.5113	150.4782	148.9543
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	2,687.34	2,661.63	2,626.15	2,599.55

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	154.9630
\$/BBI Inv Cost:	148.9543
Fuel \$ (Prod Sim Consumption x Unit Cost)	23,082.40
Net kWh (from Prod Sim)	85,000
cents/kWh:	27.156

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 02/28/2023	0	0.00	30,092	2,843,001.40			
Less: Est'd Inventory Addn			0	0.00			
Purchases: Estimate	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	0	0.00	(13,020)	(1,236,946.27)			
Actual	0	0.00	16,556	1,640,934.84			
Consumed: Estimate	0	0.00	20,206	1,875,427.97			
Actual	0	0.00	(23,299)	(2,078,743.13)			
Balance Per G/L 02/28/2023	0	0.00	30,535	3,043,674.81			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	34,490	3,420,982.79			
Consumed	0	0.00	(28,547)	(2,792,718.00)	106.5901	0.0000	106.5901
Balance @ 03/31/2023	0	0.00	#####	3,671,939.60			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 03/31/2023	0	0.00	36,478	3,671,939.60			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(3,671,939.60)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	3,724,689.93			
Total @ 04/01/2023 Avg Price	0	0.00	36,478	3,724,689.93			

Weighted Avg Cost/BBL by Location	#DIV/0!		100.6618
Weighted Avg Cost/BBL @ Avg Cost	#DIV/0!	1.7319	102.1078

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 02/28/2023	9,822	917,300.47	15,197.79			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers out: Estimate	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	0	0.00	0.00			
Actual	0	0.00	0.00			
Consumed: Estimate	0	0.00	0.00			
Actual	0	61,739.13	0.00			
Balance Per G/L 02/28/2023	9,822	979,039.60	15,197.79			
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	0	0	0.00			
Consumed	0	0.00	0.00	97.8288	1.5473	99.3761
Balance @ 03/31/2023	9,822	979,039.60	15,197.79			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	9,822	979,039.60	15,197.79		1.5473	
Reverse Fuel Balance	xxxxxxxxxxxx	(979,039.60)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	1,002,903.24	xxxxxxxxxxxx			
Total @ 04/01/2023 Avg Price	9,822	1,002,903.24	15,197.79			

Weighted Avg Cost/BBL by Location

99.6782

1.5473

1.7319

Weighted Avg Cost/BBL @ Avg Cost

102.1078

1.5473

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

KEAHOLE DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 02/28/2023	46,646.3	1,959,146.0	6,734,125.0	216,826.8			
Less: Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfers in: Estimate	(27,100.5)	(1,138,223.0)	(4,008,133.3)	(121,237.0)			
Actual	29,407.4	1,235,109.0	4,236,752.8	130,191.98			
Consumed: Estimate	38,152.0	1,602,382.0	5,465,870.0	167,071.21			
Actual	(35,800.8)	(1,503,633.0)	(4,937,737.4)	(135,089.1)	137.9226		
Balance Per G/L 02/28/2023	51,304.3	2,154,781	7,490,877.02	257,763.97	146.0087		
Purchases	xxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	38,108.3	1,600,547.0	5,278,995.1	170,481.1	138.5263		
Consumed	(41,754.4)	(1,753,686.0)	(6,142,396.8)	(194,087.72)	147.1077	4.6483	151.7560
Balance @ 03/31/2023	47,658.1	2,001,642	6,627,475.33	234,157.36793	139.0628		
Inventory From Offsite/Transfers	0.0	0.0	0.0	0.00			
Est'd Inventory Addition	0.0	0	0.0	0.00			
Fuel Balance @ Avg Price	47,658.1	2,001,642	6,627,475.33	234,157.37	139.0628		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxxxxxxx	(6,627,475.3)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxx	xxxxxxxxxxxxxxxx	6,439,904.9	xxxxxxxxxxxxxxxx			
Total @ 04/01/2023 Avg Price	47,658.1	2,001,642	6,439,904.93	234,157.37	135.1271		

Weighted Avg Cost/BBL by Location	139.0628	4.9133
	1.7319	
Weighted Avg Cost/BBL @ Avg Cost	135.1271	4.9133

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 02/28/2023	4,714.7	198,019.0	891,786.5	5,818.1			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(16,150.0)	(678,302.0)	(2,535,373.8)	(28,112.4)			
Actual	11,452.1	480,987.0	1,709,644.6	19,735.6			
Consumed: Estimate	15,552.6	653,209.0	2,228,155.0	29,461.3			
Actual	(11,398.5)	(478,736.0)	(1,685,227.3)	(19,642.4)			
Balance Per G/L 02/28/2023	4,170.9	175,177	608,985.03	7,260.25			
Purchases		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	7,076.0	297,193.0	929,120.2	12,317.2	131.3054		
Consumed	(7,645.7)	(321,121)	(1,124,746.7)	(9,434.97)	147.1077	1.2340	148.3417
Balance @ 03/31/2023	3,601.2	151,249	#####	10,142.51	114.7846		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 03/31/2023	3,601.2	151,249	413,358.52	10,142.51	114.7846		
Reverse Fuel Balance		xxxxxxxxxxxxxxxx	(413,358.52)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxxxxxx	486,615.08	xxxxxxxxxxxx			
Total @ 04/01/2023 Avg Price	3,601.2	151,249	486,615.08	10,142.51	135.1271		

Weighted Avg Cost/BBL by Location 114.7846 2.8165
2
Weighted Avg Cost/BBL @ Avg Cost 135.1271 2.8165

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	LT	TOTAL
Balance at 02/28/2023	1146.1	48,135	181,914	1,782			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	-1318.7	-55385.0	-208262.2	-2026.3			
Actual	1129.6	47445.0	170603.3	1738.5			
Consumed: Estimate	1429.5	60040.0	204801.9	2134.0			
Actual	-1076.9	-45228.0	-157831.0	-1632.1			
Balance Per G/L 02/28/2023	1309.7	55,007	191,226.25	1,995.82	146.0087		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	1516.2	63681.0	175696.1	2329.8	0.0000		
Consumed	-1513.2	-63553.0	-222598.4	-2352.4	147.1077	1.5546	148.6623
Balance @ 03/31/2023	1,312.7	55,135	144,323.96	1973.20788	109.9412		
Inven From Offsite/Transfers	0.0	0.0	0.0	0.0			
Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Fuel Balance @ Avg Price	1,312.7	55,135	144,323.96	1,973.21	109.9412		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -144,323.96	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 177,386.44	XXXXXXXXXXXX			
Total @ 04/01/2023 Avg Price	1,312.7	55,135	177,386.44	1,973.21	135.1271		

Weighted Avg Cost/BBL by Location

109.9412 1.5031

1.7319

Weighted Avg Cost/BBL @ Avg Cost

135.1271 1.5031

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

KEAHOLE ULSD

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 02/28/2023	2,220.3	93,252	336,628.51	10,224.70			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(189.4)	(7,953)	(27,441.74)	(847.11)			
Actual	189.4	7,953	27,441.74	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		153	0.00	16.30			
Actual		(166)	0.00	847.11			
Consumed: Estimate	258.9	10,874	39,307.10	1,046.86			
Actual	(185.4)	(7,787)	(28,963.77)	235.07	156.2191		
Balance Per G/L 02/28/2023	2,293.5	96,326	346,971.84	11,522.92	151.2864		
Purchases	188.5	7,918	25,110.77	843.38	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(5.6)	(236)	0.00	(25.14)	0.00		
Consumed	(272.8)	(11,457)	(41,148.63)	(1,256.21)	150.8460	4.6051	155.4511
Balance @ 03/31/2023	2,203.6	92,551	330,933.98	#####	150.1791		
Inventory From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ Avg Price	2,203.6	92,551	330,933.98	11,084.95	150.1791		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(330,933.98)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	328,235.02	xxxxxxxxxxxx			
Total @ 04/01/2023 Avg Price	2,203.6	92,551	328,235.02	11,084.95	148.9543		

Weighted Avg Cost/BBL by Location

150.1791 5.0304

1.7319

Weighted Avg Cost/BBL @ Avg Cost

148.9543 5.0304

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 02/28/2023	848.3	35,628.0	126,258.5	3,104.57			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,924)	(54,945.54)	(1,412.31)			
Actual		7,944.0	27,410.7	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(0.1)	(4)	0.00	0.00			
Actual	0.0	0	0.00	704.56			
Consumed: Estimate	317.8	13,348	48,250.06	1,158.80			
Actual	(214.5)	(9,007)	(31,761.84)	(860.96)			
Balance Per G/L 02/28/2023	761.5	31,985	115,211.82	2,694.66	151.2864		
ULSD Purchases	377.0	15,834	50,215.24	1,404.33	133.1969		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	4	0.00	0.00	#DIV/0!		
Consumed	(475.2)	(19,957)	(71,676.98)	(1,739.02)	150.8460	3.6598	154.5058
Balance @ 03/31/2023	663.5	27,866	93,750.08	2359.95933	141.3013		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ Avg Price	663.5	27,866	93,750.08	2,359.96	141.3013		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(93,750.08)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	98,827.64	xxxxxxxxxxxx			
Total @ 04/01/2023 Avg Price	663.5	27,866	98,827.64	2,359.96	148.9543		

Weighted Avg Cost/BBL by Location

141.3013 3.5570

1.7319

Weighted Avg Cost/BBL @ Avg Cost

148.9543 3.5570

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP
Balance at 02/28/2023	1,260.3	52,934.0	190,197.4	1927.8
Less: Est'd Inventory Addition	0.0	0	0.00	0.00
Purchases: Estimate	(189.3)	(7,950)	(27,431.39)	(290.86)
Actual	189.3	7,950	27,431.38	0.00
Transfers out: Estimate		x	x	x
Actual		x	x	x
Transfers in: Estimate		0	0.00	0.00
Actual		0	0.00	290.86
Consumed: Estimate	156.5	6,575	23,767.17	241.57
Actual	(102.3)	(4,296)	(15,084.13)	(166.12)
Balance Per G/L 02/28/2023	1,314.6	55,213	198,880.43	2,003.29
ULSD Purchases	188	7,916	25,104.43	289.61
Estimated Purchases	0	-	-	-
Transfer in	0	0	0.00	0.00
Consumed	(418.8)	(17,590)	(63,175.73)	(640.62)
Balance @ 03/31/2023	1,084.3	45,539	160,809.13	1,652.28
Inventory From Offsite/Transfers	0.0	0	0.00	0.00
Est'd Inventory Addition	0.0	0	0.00	0.00
Fuel Balance @ Avg Price	1,084.3	45,539	160,809.13	1,652.28
Reverse Fuel Balance	x	x	(160,809.13)	x
Fuel Balance @ Avg Price	x	x	161,505.49	x
Total @ 04/01/2023 Avg Price	1,084.3	45,539	161,505.49	1,652.28

Weighted Avg Cost/BBL by Location	148.3121	1.5239
	#REF!	
Weighted Avg Cost/BBL @ Avg Cost	148.9543	1.5239

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
April 2023

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 02/28/2023	132.5	5,567	19,907.79	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	(33.3)	(1,400)	(4,830.00)	
Actual	17.7	745	2,570.63	
Consumed: Estimate	16.8	705	2,548.42	
Actual	(16.1)	(676)	(2,399.07)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 02/28/2023	117.64	4,941	17,797.77	151.2864
Purchases	93.1	3,910	12,579.47	135.1247
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(107.4)	(4,512)	(16,205.17)	150.8460
Balance @ 03/31/2023	74.5	3,129	14,172.07	190.2292
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 03/31/2023	74.5	3,129	14,172.07	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(14,172.07)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	11,097.10	xxxx
Total @ 04/01/2023 Avg Price	74.5	3,129	11,097.10	148.9543

Hawaii Electric Light Company, Inc.
PURCHASED POWER PRICES FOR April 1, 2023

		<u>April 1, 2023</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	19.408	6.560
PGV (22 MW)	- off peak	19.621	5.430
WAILUKU HYDRO	- on peak	19.408	7.240
	off peak	19.621	5.970
Other: (<100 KW)	Sch Q Rate	19.080	
		<u>April 1, 2023</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		19.618	
PGV Addtl 5 MW	- on peak	13.850	0.0000
	- off peak	13.850	0.0000
PGV Addtl 8 MW	- on peak	7.040	0.0000
	- off peak	7.040	0.0000

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
April 1, 2023

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$219,500)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$73,167)
3	Revenue Tax Divisor	0.91115
	Total (Line 2 / Line 3)	(\$80,301)
5	Estimated MWh Sales (April 1, 2023)	85,035 mwh
6	Adjustment (Line 4 / Line 5)	(0.094) ¢/kwh

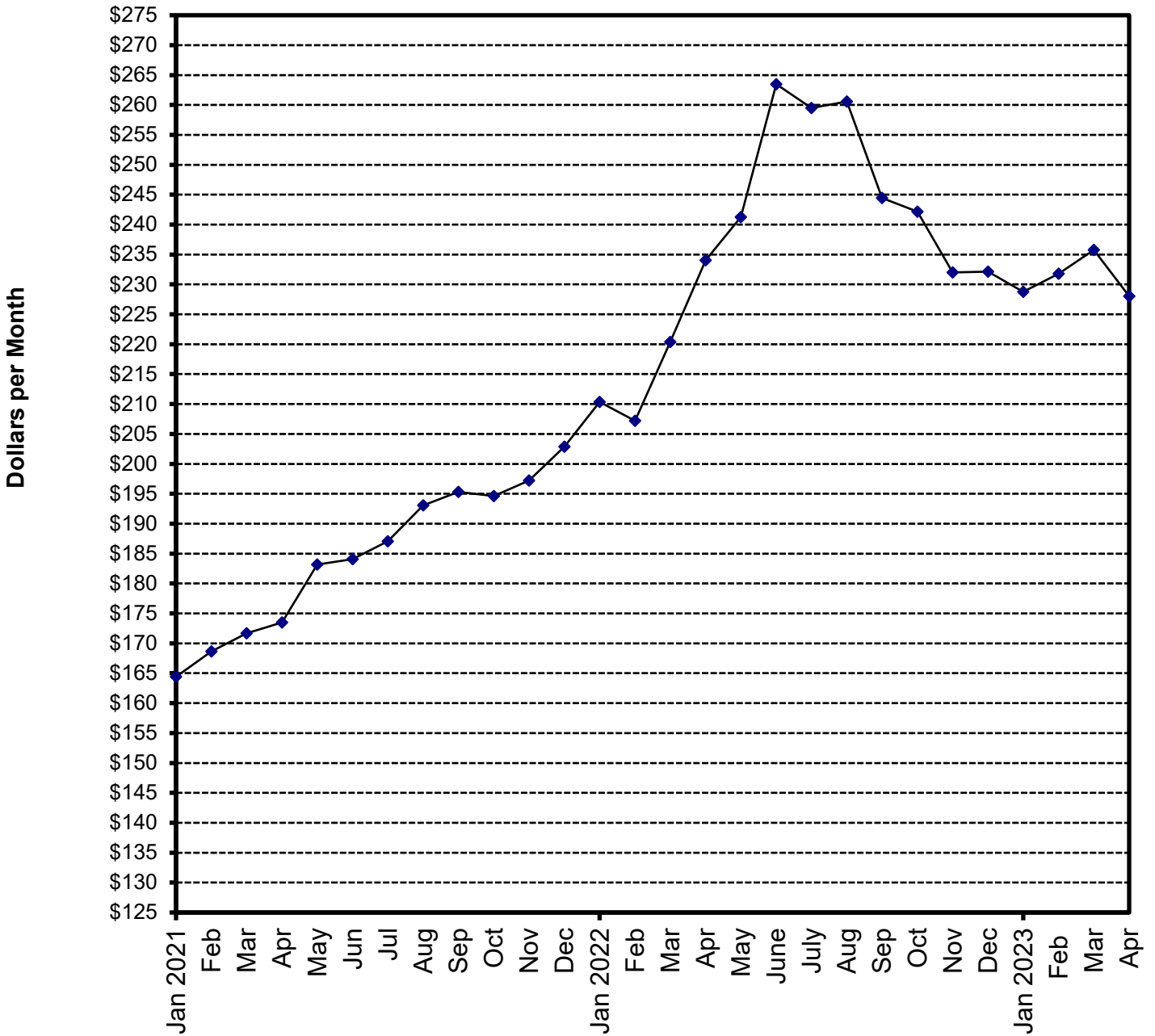
HAWAII ELECTRIC LIGHT COMPANY, INC.
2023 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
January 21					(261,333)	(275,071)	12,258
February 21	374,300	[4]	(9,409)	383,709	(124,767)	(125,584)	270,383
March					(124,767)	(134,386)	135,997
April					(124,767)	(131,121)	4,876
May	(707,400)	(1)	(24,174)	(683,226)	235,800	261,182	(417,168)
June					235,800	262,654	(154,514)
July					235,800	253,310	98,796
August	(80,900)	[2]	45,882	(126,782)	26,967	29,218	1,232
September					26,967	28,336	29,568
October					26,967	27,747	57,315
November	(794,600)	[3]	21,130	(815,730)	264,867	280,992	(477,423)
December					264,867	292,531	(184,892)
January 22					264,867	270,827	85,935
February 22	(849,900)	[4]	44,569	(894,469)	283,300	291,654	(516,880)
March					283,300	304,924	(211,956)
April					283,300	310,129	98,173
May	(2,364,200)	[1]	35,938	(2,400,138)	788,067	865,010	(1,436,955)
June					788,067	818,932	(618,023)
July					788,067	790,896	172,873
August	(1,068,900)	[2]	134,637	(1,203,537)	356,300	361,221	(669,443)
September					356,300	365,659	(303,784)
October					356,300	370,642	66,858
November	492,400	[3]	17,109	475,291	(164,133)	(159,923)	382,226
December					(164,133)	(166,766)	215,460
January 23					(164,133)	(156,998)	58,462
February	219,500	[4]	15,919	203,581	(73,167)	(73,626)	188,417
March					(73,167)		
April					(73,167)		

NOTES:

- Col(1): Quarterly FOA reconciliation amounts. (Refer to Attachment 6)
A positive number is an over-collection. A negative number is an under-collection.
- Col(2): FOA reconciliation adjustment variance accumulated during the last three months, starting with the fourth prior month; the difference between the estimated recorded sales used to derive the \$/kwh adjustment and the actual recorded sales.
(Col(5)-Col(4))
- Col(3): FOA reconciliation generated in the current quarter. The YTD FOA reconciliation difference minus the adjustment variance. Col(1)-Col(2)
- Col(4): Amount that the FOA reconciliation adjustment is trying to collect. (Col(1) * 1/3)
- Col(5): Actual collected amount. (recorded sales * \$/kwh adjustment/1.09751)
- Col(6): Cumulative balance of the FOA reconciliation (Previous balance + Col(3) + Col(5))

Hawaii Electric Light Company, Inc. Residential Bill at 500 KWH/Month Consumption



**HAWAII ELECTRIC LIGHT COMPANY, INC.
FUEL OIL ADJUSTMENT FACTOR DATA**

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH</u>		
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$) @ 500 KWH</u>	<u>RESIDENTIAL BILL (\$) @ 600 KWH</u>
January 1, 2020	16.768	185.37	221.88
February 1, 2020	17.547	189.22	226.49
March 1, 2020	17.424	188.72	225.90
April 1, 2020	15.644	179.61	214.96
May 1, 2020	11.215	157.94	188.96
June 1, 2020	10.575	151.51	181.25
July 1, 2020	11.359	154.68	185.07
August 1, 2020	14.389	170.16	203.65
September 1, 2020	14.569	171.01	204.67
October 1, 2020	14.274	169.56	202.93
November 1, 2020	13.426	163.74	195.96
December 1, 2020	13.032	161.87	193.70
January 1, 2021	13.543	164.41	196.74
February 1, 2021	14.523	168.63	201.81
March 1, 2021	15.091	171.67	205.45
April 1, 2021	15.486	173.51	207.68
May 1, 2021	16.982	183.19	219.28
June 1, 2021	16.726	184.08	220.35
July 1, 2021	17.040	187.04	223.92
August 1, 2021	18.134	193.08	231.16
September 1, 2021	18.588	195.30	233.83
October 1, 2021	18.447	194.63	233.01
November 1, 2021	19.470	197.22	236.14
December 1, 2021	20.549	202.87	242.91
January 1, 2022	20.942	210.36	251.90
February 1, 2022	20.361	207.20	248.09
March 1, 2022	22.943	220.40	263.93
April 1, 2022	25.717	234.05	280.30
May 1, 2022	27.068	241.26	288.97
June 1, 2022	31.165	263.48	315.62
July 1, 2022	30.355	259.50	310.86
August 1, 2022	30.507	260.56	312.13
September 1, 2022	27.322	244.46	292.81
October 1, 2022	26.850	242.17	290.06
November 1, 2022	24.879	231.99	277.85
December 1, 2022	24.880	232.14	278.03
January 1, 2023	24.245	228.78	273.99
February 1, 2023	24.918	231.81	277.63
March 1, 2023	25.651	235.76	282.37
April 1, 2023	24.141	228.04	273.11

**HAWAII ELECTRIC LIGHT COMPANY, INC.
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
1/1/2020-10/31/2020	INTERIM RATE ADJUSTMENT 2019	4.0900 PERCENT ON BASE
1/1/2020-6/30/2020	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7437 CENTS/KWH
2/1/2020- 2/29/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7631 CENTS/KWH
3/1/2020- 3/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7883 CENTS/KWH
4/1/2020- 4/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.7717 CENTS/KWH
4/1/2020- 4/30/2020	SOLARSAVER ADJUSTMENT	-0.0267 CENTS/KWH
05/01/2020-5/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.8396 CENTS/KWH
5/1/2020 -3/31/2021	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/01/2020-6/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.8413 CENTS/KWH
6/1/2020-5/31/2021	RBA RATE ADJUSTMENT	-0.4623 CENTS/KWH
07/01/2020-7/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.8592 CENTS/KWH
7/1/2020- 6/30/2021	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.5882 CENTS/KWH
7/1/2020	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
8/1/2020-8/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.9261 CENTS/KWH
9/1/2020-9/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.9161 CENTS/KWH
10/1/2020-10/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.9222 CENTS/KWH
11/1/2020-11/30/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.9106 CENTS/KWH
11/1/2020	Final Rates (TY2019), Docket No. 2018-0368, Order No. 37395	
12/1/2020-12/31/2020	PURCHASED POWER ADJUSTMENT CLAUSE	1.9291 CENTS/KWH
1/1/2021-1/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	1.9133 CENTS/KWH
1/1/2021-6/30/2021	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
2/1/2021-2/28/2021	PURCHASED POWER ADJUSTMENT CLAUSE	1.7782 CENTS/KWH
3/1/2021-3/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	1.8172 CENTS/KWH
4/1/2021-4/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	1.7966 CENTS/KWH
4/1/2021-4/30/2021	SOLARSAVER ADJUSTMENT	-0.0033 CENTS/KWH
5/1/2021-5/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.2319 CENTS/KWH
5/1/2021-3/31/2022	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2021-6/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.2333 CENTS/KWH
6/1/2021-12/31/2021	RBA RATE ADJUSTMENT	-0.0299 CENTS/KWH
7/1/2021-12/31/2021	GREEN INFRASTRUCTURE FEE	1.19 DOLLARS/MONTH
7/1/2021-7/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.4649 CENTS/KWH
7/1/2021-06/30/2022	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.6478 CENTS/KWH
8/1/2021-8/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.4876 CENTS/KWH
8/1/2021-10/31/2021	RESIDENTIAL DSM ADJUSTMENT	0.0893 CENTS/KWH
9/1/2021-9/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.4776 CENTS/KWH
10/1/2021-10/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.4838 CENTS/KWH
11/1/2021-11/30/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.0761 CENTS/KWH
11/1/2021	RESIDENTIAL DSM ADJUSTMENT	-0.0051 CENTS/KWH
12/1/2021-12/31/2021	PURCHASED POWER ADJUSTMENT CLAUSE	2.1263 CENTS/KWH
1/1/2022-06/30/2022	GREEN INFRASTRUCTURE FEE	1.25 DOLLARS/MONTH
1/1/2022-5/31/2022	RBA RATE ADJUSTMENT	1.0380 CENTS/KWH
1/1/2022-1/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1529 CENTS/KWH
2/1/2022-2/28/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.0987 CENTS/KWH
2/1/2022- 4/30/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0043 CENTS/KWH
3/1/2022-3/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1564 CENTS/KWH
4/1/2022-4/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.1141 CENTS/KWH
4/1/2022-4/30/2022	SOLARSAVER ADJUSTMENT	-0.0011 CENTS/KWH
5/1/2022-5/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2917 CENTS/KWH
5/1/2022	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2022-7/31/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0912 CENTS/KWH
6/1/2022-6/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.3052 CENTS/KWH
6/1/2022-12/31/2022	RBA RATE ADJUSTMENT	1.3708 CENTS/KWH
7/1/2022-7/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.3333 CENTS/KWH
7/1/2022-12/31/2022	GREEN INFRASTRUCTURE FEE	1.18 DOLLARS/MONTH
7/1/2022	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.6488 CENTS/KWH
8/1/2022-8/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2981 CENTS/KWH
8/1/2022-10/31/2022	RESIDENTIAL DSM ADJUSTMENT	0.0035 CENTS/KWH
9/1/2022-9/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2638 CENTS/KWH
10/1/2022-10/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2771 CENTS/KWH
11/1/2022-11/30/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2180 CENTS/KWH
11/1/2022	RESIDENTIAL DSM ADJUSTMENT	-0.0017 CENTS/KWH
12/1/2022-12/31/2022	PURCHASED POWER ADJUSTMENT CLAUSE	2.2472 CENTS/KWH
1/1/2023-1/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	2.2701 CENTS/KWH
1/1/2023-06/30/2023	GREEN INFRASTRUCTURE FEE	1.23 DOLLARS/MONTH
1/1/2023	RBA RATE ADJUSTMENT	1.3006 CENTS/KWH
2/1/2023-2/28/2023	PURCHASED POWER ADJUSTMENT CLAUSE	2.2018 CENTS/KWH
2/1/2023	RESIDENTIAL DSM ADJUSTMENT	0.0008 CENTS/KWH
3/1/2023-3/31/2023	PURCHASED POWER ADJUSTMENT CLAUSE	2.2576 CENTS/KWH
4/1/2023-4/30/2023	PURCHASED POWER ADJUSTMENT CLAUSE	2.2245 CENTS/KWH

**Base charges include customer charge, demand charge, energy charge, power factor adjustment, voltage discount, and minimum charge.

Calculations of the Average Residential Customer Bill

	Rate		Charge (\$) at 500 Kwh			
	3/01/23	4/1/2023	3/01/23	4/1/2023	Difference	
Base Rates	effective date:	11/01/2020	11/01/2020			
Base Fuel Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$73.74	\$73.74	\$0.00
First 300 kWh per month	¢/kwh	13.4059	13.4059	\$40.22	\$40.22	\$0.00
Next 700 kWh per month	¢/kwh	16.7577	16.7577	\$33.52	\$33.52	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
Total Base Charges				\$85.24	\$85.24	\$0.00
Interim Rate Adjustment 2019 TY	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
RBA Rate Adjustment	¢/kwh	1.3006	1.3006	\$6.50	\$6.50	\$0.00
Purchased Power Adj. Clause	¢/kwh	2.2576	2.2245	\$11.29	\$11.12	-\$0.17
PBF Surcharge	¢/kwh	0.6488	0.6488	\$3.24	\$3.24	\$0.00
DSM Adjustment	¢/kwh	0.0008	0.0008	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Recovery	¢/kwh	25.6510	24.1410	\$128.26	\$120.71	-\$7.55
Green Infrastructure Fee	\$	1.23	1.23	\$1.23	\$1.23	\$0.00
Avg Residential Bill at 500 kwh				\$235.76	\$228.04	
				Increase (Decrease -)		-\$7.72
				% Change		-3.27%

	Rate		Charge (\$) at 600 Kwh			
	3/01/23	4/1/2023	3/01/23	4/1/2023	Difference	
Base Rates	effective date:	11/01/2020	11/01/2020			
Base Fuel/Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh		1.7319073	\$90.49	\$90.49	\$0.00
First 300 kWh per month	¢/kwh	13.4059	13.4059	\$40.22	\$40.22	\$0.00
Next 700 kWh per month	¢/kwh	16.7577	16.7577	\$50.27	\$50.27	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
Total Base Charges				\$101.99	\$101.99	\$0.00
Interim Rate Adjustment 2019 TY	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
RBA Rate Adjustment	¢/kwh	1.3006	1.3006	\$7.80	\$7.80	\$0.00
Purchased Power Adj. Clause	¢/kwh	2.2576	2.2245	\$13.55	\$13.35	-\$0.20
PBF Surcharge	¢/kwh	0.6488	0.6488	\$3.89	\$3.89	\$0.00
DSM Adjustment	¢/kwh	0.0008	0.0008	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Recovery	¢/kwh	25.6510	24.1410	\$153.91	\$144.85	-\$9.06
Green Infrastructure Fee	\$	1.23	1.23	\$1.23	\$1.23	\$0.00
Avg Residential Bill at 600 kwh				\$282.37	\$273.11	
				Increase (Decrease -)		-\$9.26
				% Change		-3.28%

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