



SHARON M. SUZUKI  
President

April 26, 2019

FILED

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

2019 APR 26 P 3:55

PUBLIC UTILITIES  
COMMISSION

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Recovery Factor for May 2019

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Recovery factor for May 2019 is 17.396 cents per kilowatt-hour ("kWh"), an increase of 0.93 cents per kWh from last month.

Hawai'i Electric Light's fuel composite cost of generation increased 52.56 per million BTU to 1,491.69 cents per million BTU. The distributed generation increased 0.26 cents per kWh to 15.506 cents per kWh. The composite cost of purchased energy increased 0.61 cents per kWh to 13.916 cents per kWh.

A residential customer consuming 500 kWh of electricity will be paying \$188.74, an increase of \$5.62 compared to rates effective April 1, 2019. The increase in the typical residential bill is due to the increase of (+\$4.63) of the Energy Cost Recovery Factor, the increase in the Purchased Power Adjustment rate (+\$0.61), and the termination of the April 2019 credit for the SolarSaver Adjustment (+\$0.38).

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 May 1, 2019.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST RECOVERY FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>4/01/19</u>	<u>5/01/19</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,439.13	1,491.69	52.56
Dispersed Generation Energy, ¢/kWh	15.245	15.506	0.26
Purchased Energy, ¢/kWh	13.309	13.916	0.61
<u>Residential Schedule "R"</u>			
Energy Cost Recovery - ¢/kWh	16.469	17.396	0.93
<u>Others - "G,J,P,F"</u>			
Energy Cost Recovery - ¢/kWh	16.469	17.396	0.93
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$183.12	\$188.74	\$5.62
600 KWH Consumption - \$/Bill	\$219.17	\$225.93	\$6.76

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

ENERGY COST RECOVERY (ECR) FILING - May 1, 2019 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	May 1, 2019
2	Supersedes Factors of	April 1, 2019

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>					
FUEL PRICES, ¢/mmbtu					
3					
4	Hill Industrial		1,195.17		
5	Puna Industrial		1,218.13		
6	Keahole Diesel		1,728.61		
6a	Keahole ULSD		1,662.83		
7	Waimea ULSD Diesel		1,663.93		
8	Hilo Diesel		1,699.08		
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,631.84		
9	Puna Diesel		1,693.49		
10	Wind		0.00		
11	Hydro		0.00		
BTU MIX, %					
12	Hill Industrial		26.927		
14	Puna Industrial		5.887		
15	Keahole Diesel		46.098		
15a	Keahole ULSD		0.349		
16	Waimea ULSD Diesel		0.428		
17	Hilo Diesel		5.114		
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.373		
18	Puna Diesel		11.538		
19	Wind		0.000		
20	Hydro		3.286		
			100.000		
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbtu		1,491.69		
22	% Input to System kWh Mix		56.994		
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
		Eff Factor	Percent of	Weighted	
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Centrl Stn +</u>	<u>Eff Factor</u>	
			<u>Wind/Hydro</u>		
23	Industrial	0.014569	32.814	0.004781	
24	Diesel	0.010480	63.900	0.006697	
25	Other	0.012395	3.286	0.000407	
	(Lines 23, 24, 25)				
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0118850	
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			10.10437	
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)			10.10437	
33	Revenue Tax Req Multiplier			1.0975	
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			11.08955	
				<b><u>DG ENERGY COMPONENT</u></b>	
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh
					15.506
				36	% Input to System kWh Mix
					0.125
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)
					0.01932
				38	BASE DG ENERGY COMPOSITE COS
					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)
					0.01932
				42	Loss Factor
					1.072
				43	Revenue Tax Req Multiplier
					1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)
					0.02273
				SUMMARY OF	
				TOTAL GENERATION FACTOR, ¢/kWh	
				45	Cntrl Stn+Wind/Hydro (line 34)
					11.08955
				46	DG (line 44)
					0.02273
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)
					11.11228

<sup>1</sup> Hilo ULSD same location as Kanoelehua ULSD



**Hawaii Electric Light Company, Inc.**  
FUEL OIL INVENTORY PRICES FOR May 1, 2019

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	75.2958	75.2958
Land Transportation Cost - \$/BBL	--	1.4465
Industrial Costs For Filing - \$/BBL	75.2958	76.7423
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	<u>1,195.17</u>	<u>1,218.13</u>

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	98.5318	98.5318	98.5318
Land Transportation Cost - \$/BBL	2.7647	0.7070	1.0341
Diesel Costs For Filing - \$/BBL	101.2965	99.2388	99.5659
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	<u>1,728.61</u>	<u>1,693.49</u>	<u>1,699.08</u>

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	92.0300	92.0300	92.0300	92.0300
Land Transportation Cost - \$/BBL	3.2501	3.3133	1.4744	-
ULSD Costs For Filing - \$/BBL	95.2801	95.3434	93.5044	92.0300
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	<u>1,662.83</u>	<u>1,663.93</u>	<u>1,631.84</u>	<u>1,606.11</u>

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	192.0792
\$/BBI Inv Cost:	<u>92.0300</u>
Fuel \$ (Prod Sim Consumption x Unit Cost)	17,677.05
Net kWh (from Prod Sim)	114,000
cents/kWh:	15.506

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 03/31/2019	0	0.00	39,945	3,093,889.26			
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	(30,805)	(2,500,280.88)			
Actual	0	0.00	30,086	2,471,580.73			
Consumed: Estimate	0	0.00	29,515	1,851,391.77			
Actual	0	0.00	(31,521)	(1,977,222.43)			
Balance Per G/L 03/31/2019	<u>0</u>	<u>0.00</u>	<u>37,220</u>	<u>2,939,358.45</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	39,165	2,901,310.07			
Consumed	<u>0</u>	<u>0.00</u>	<u>(31,498)</u>	<u>(2,248,361.18)</u>	106.5901	0.0000	106.5901
Balance @ 04/30/2019	0	0.00	44,887	3,592,307.34			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 04/30/2019	<u>0</u>	<u>0.00</u>	<u>44,887</u>	<u>3,592,307.34</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(3,592,307.34)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	3,379,802.20			
Total @ 05/01/2019 Avg Price	<u>0</u>	<u>0.00</u>	<u>44,887</u>	<u>3,379,802.20</u>			

Weighted Avg Cost/BBL by Location #DIV/0! 80.0300

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 75.2958

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 03/31/2019	7,635	301,331.27	5,691.19			
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	(4,434)	(339,598.52)	(5,301.91)			
Actual	4,291	342,796.49	5,300.72			
Consumed: Estimate	4,593	288,105.79	5,510.80			
Actual	(6,368)	(399,446.48)	(4,789.55)			
Balance Per G/L 03/31/2019	5,717	193,188.55	6,411.25			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	10,828	814,645	12,947.47			
Consumed	(6,523)	(465,618.77)	(4,862.29)	71.3811	0.7454	72.1265
Balance @ 04/30/2019	10,022	542,215.26	14,496.43			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	10,022	542,215.26	14,496.43		1.4465	
Reverse Fuel Balance	XXXXXXXXXXXX	(542,215.26)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	754,614.42	XXXXXXXXXXXX			
Total @ 05/01/2019 Avg Price	10,022	754,614.42	14,496.43			

Weighted Avg Cost/BBL by Location

54.1025

1.4465

Weighted Avg Cost/BBL @ Avg Cost

75.2958

1.4465





**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 03/31/2019	6,040.3	253,691.0	592,888.9	6,983.1			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(4,771.8)	(200,414.0)	(435,797.6)	(5,290.9)			
Actual	4,724.8	198,443.0	465,262.9	5,440.9			
Consumed: Estimate	2,732.8	114,776.0	225,559.2	4,119.2			
Actual	(4,770.4)	(200,357.0)	(393,744.0)	(8,023.4)			
Balance Per G/L 03/31/2019	3,955.7	166,139	454,169.30	3,228.87			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	4,849.3	203,671.0	445,368.7	5,376.9	91.8417		
Consumed	(5,301.1)	(222,648)	(526,024.56)	(6,128.63)	99.2285	1.1561	100.3846
Balance @ 04/30/2019	3,503.9	147,162	373,513.41	2,477.15	106.6006		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 04/30/2019	3,503.9	147,162	373,513.41	2,477.15	106.6006		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(373,513.41)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	345,241.45	XXXXXXXXXXXXXXXXXXXX			
Total @ 05/01/2019 Avg Price	3,503.9	147,162	345,241.45	2,477.15	98.5318		

Weighted Avg Cost/BBL by Location 106.6006 0.7070

Weighted Avg Cost/BBL @ Avg Cost 98.5318 0.7070

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 03/31/2019	1961.8	82,396	167,403	2,083			
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	-376.0	-15793.0	-34624.2	-370.0			
Actual	371.4	15599.0	35734.1	368.8			
Consumed: Estimate	91.0	3822.0	7511.0	99.1			
Actual	-409.5	-17201.0	-33803.6	-447.2			
Balance Per G/L 03/31/2019	1638.6	68,823	142,220.47	1,734.06	86.7916		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	563.4	23662.0	52982.9	551.3	#DIV/0!		
Consumed	-297.0	-12475.0	-29473.2	-315.4	99.2285	1.0620	100.2905
Balance @ 04/30/2019	1,905.0	80,010	165,730.09	1,969.96	86.9974		
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	1,905.0	80,010	165,730.09	1,969.96	86.9974		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -165,730.09	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 187,703.13	XXXXXXXXXXXX			
Total @ 05/01/2019 Avg Price	1,905.0	80,010	187,703.13	1,969.96	98.5318		
Weighted Avg Cost/BBL by Location			86.9974	1.0341			
Weighted Avg Cost/BBL @ Avg Cost			98.5318	1.0341			

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 03/31/2019	2,157.9	90,632	193,678.34	7,102.13			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(16,678.20)	(540.25)			
Actual	0.0	0	0.00	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		37	0.00	2.50			
Actual		(10)	0.00	0.00			
Consumed: Estimate	73.3	3,078	6,721.81	241.06			
Actual	(199.5)	(8,381)	(17,907.29)	(656.38)	89.7394		
Balance Per G/L 03/31/2019	1,842.3	77,376	165,814.67	6,149.07	90.0049		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	378.0	15,874	35,613.47	1,074.67	94.23		
Consumed	(189.8)	(7,973)	(17,175.95)	(624.78)	90.4791	3.2912	93.7703
Balance @ 04/30/2019	2,030.4	85,277	184,252.19	6,598.96	90.7465		
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	2,030.4	85,277	184,252.19	6,598.96	90.7465		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(184,252.19)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	186,858.16	xxxxxxxxxxxx			
Total @ 05/01/2019 Avg Price	2,030.4	85,277	186,858.16	6,598.96	92.0300		

Weighted Avg Cost/BBL by Location

90.7465      3.2501

Weighted Avg Cost/BBL @ Avg Cost

92.0300      3.2501

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 03/31/2019	1,443.7	60,635.0	130,292.4	4,783.01			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		0	0.00	0.00			
Actual		0.0	0.0	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(3.0)	(128)	0.00	0.00			
Actual	1.4	60	0.00	0.00			
Consumed: Estimate	94.5	3,971	8,671.97	313.97			
Actual	(252.9)	(10,623)	(22,922.21)	(839.93)			
Balance Per G/L 03/31/2019	1,283.7	53,915	116,042.15	4,257.05	90.3973		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	48	0.00	0.00	#DIV/0!		
Consumed	(154.5)	(6,488)	(13,976.87)	(511.79)	90.4791	3.3130	93.7922
Balance @ 04/30/2019	1,130.4	47,475	102,065.29	3,745.27	90.2947		
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	1,130.4	47,475	102,065.29	3,745.27	90.2947		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(102,065.29)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	104,026.77	xxxxxxxxxxxx			
Total @ 05/01/2019 Avg Price	1,130.4	47,475	104,026.77	3,745.27	92.0300		

Weighted Avg Cost/BBL by Location

90.2947 3.3133

Weighted Avg Cost/BBL @ Avg Cost

92.0300 3.3133

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 03/31/2019	1,499.9	62,995.0	136,902.2	1,999.5		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(190.0)	(7,980)	(16,678.20)	(185.93)		
Actual	0.0	0	0.00	0.00		
Transfers out: Estimate			x	x		x
Actual			x	x		x
Transfers in: Estimate		0	0.00	0.00		
Actual		0	0.00	0.00		
Consumed: Estimate	61.8	2,595	967.04	26.58		
Actual	(168.5)	(7,078)	(15,457.11)	(193.36)		
Balance Per G/L 03/31/2019	1,203.1	50,532	105,733.92	1,646.83		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(104.2)	(4,377)	(967.04)	(26.58)	90.47911087	1.3331
Balance @ 04/30/2019	1,098.9	46,155	104,766.88	1,620.25		
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	1,098.9	46,155	104,766.88	1,620.25		
Reverse Fuel Balance	x	x	(104,766.88)	x		
Fuel Balance @ Avg Price	x	x	101,134.40	x		
Total @ 05/01/2019 Avg Price	1,098.9	46,155	101,134.40	1,620.25		

Weighted Avg Cost/BBL by Location

95.3355 1.4744

Weighted Avg Cost/BBL @ Avg Cost

92.0300 1.4744

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2019

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 03/31/2019	117.4	4,932	11,328.93	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	3.5	146	318.84	
Actual	(21.0)	(880)	(2,044.71)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 03/31/2019	99.95	4,198	9,603.06	96.0764
Purchases	65.2	2,738	6,490.61	99.5638
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(25.4)	(1,067)	(2,298.60)	90.4791
Balance @ 04/30/2019	139.7	5,869	13,795.07	98.7209
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 04/30/2019	139.7	5,869	13,795.07	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(13,795.07)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	12,860.10	xxxx
Total @ 05/01/2019 Avg Price	139.7	5,869	12,860.10	92.0300



**Hawaii Electric Light Company, Inc.**  
PURCHASED POWER PRICES FOR May 1, 2019

		<u>May 1, 2019</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	16.368	6.560
PGV (22 MW)	- off peak	15.030	5.430
WAILUKU HYDRO	- on peak	16.368	7.240
	off peak	15.030	5.970
Other: (<100 KW)	Sch Q Rate	15.440	
		<u>May 1, 2019</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		14.054	
PGV Addtl 5 MW	- on peak	13.0500	0.0000
	- off peak	13.0500	0.0000
PGV Addtl 8 MW	- on peak	9.9500	0.0000
	- off peak	6.6400	0.0000



**Hawaii Electric Light Company, Inc.**  
**Energy Cost Reconciliation Adjustment**  
May 1, 2019

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$1,745,900)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$581,967)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$638,717)
5	Estimated MWh Sales (May 1, 2019)	86,525 mwh
6	Adjustment (Line 4 / Line 5)	(0.738) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC.  
2019 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)

<u>LINE</u>	<u>DESCRIPTION</u>	Info Only March 2019 YTD Total <u>No Deadband</u>	collectn by <u>company*</u>	Basis for Recon March 2019 YTD Total <u>Deadband</u>	Collection or Refund by <u>Company</u>
ACTUAL COSTS:					
1	Generation	\$20,838.2		\$20,838.2	
2	Distributed Generation	\$4.0		\$4.0	
3	Purch Power	\$14,864.8		\$14,864.8	
4	TOTAL	<u>\$35,707.0</u>		<u>\$35,707.0</u>	
FUEL FILING COST					
5	Generation	\$20,608.1		\$20,681.4	
6	Distributed Generation	\$4.0		\$4.0	
7	Purch Power	\$14,864.8		\$14,864.8	
8	TOTAL	<u>\$35,476.9</u>		<u>\$35,550.2</u>	
BASE FUEL COST					
9	Generation	\$3,791.0		\$3,791.0	
10	Distributed Generation	\$0.3		\$0.3	
11	Purch Power	\$4,516.2		\$4,516.2	
12	TOTAL	<u>\$8,307.6</u>		<u>\$8,307.6</u>	
13	FUEL-BASE COST (Line 8-12)	\$27,169.4		\$27,242.6	
14	ACTUAL FOA LESS TAX	\$26,951.5		\$26,951.5	
15	Less: FOA reconciliation adj for prior year	-\$2,038.3		-\$2,038.3	
15A	Less: Non-Adjustable Component Revenues Less Tax	\$1.2		\$1.2	
16	ADJUSTED FOA LESS TAX	<u>\$28,988.6</u>		<u>\$28,988.6</u>	
17	FOA-(FUEL-BASE) (Line 16-13)	\$1,819.2	over	\$1,745.9	over
ADJUSTMENTS:					
18	Current year FOA accrual reversal	\$0.0		\$0.0	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	<u>\$0.0</u>		<u>\$0.0</u>	
21	QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	<u>\$1,819.2</u>	over	<u>\$1,745.9</u>	over

\* Over means an over-collection by the Company.  
Under means an under-collection by the Company.

**Hawai'i Electric Light Company  
DEADBAND CALCULATION  
For Period: January 1, 2019 to March 31, 2019**

	Notes	YTD
<b><u>Industrial</u></b>		
Industrial Efficiency Factor (per D&O), BTU/kWh*	f	14,569
Industrial Deadband Definition, +/- BTU/kWh	d	100
Industrial Portion of Recorded Sales, kWh	a	44,508,588
Industrial Consumption (Recorded), MMBTU	b	667,103
Industrial Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	14,988
Lower limit of Industrial Deadband, BTU/kWh	e= f-d	14,469
Higher limit of Industrial Deadband, BTU/kWh	g=f+d	14,669
Industrial Efficiency Factor for cost-recovery, BTU/kW	h=c, e, or g	<b>14,669</b>
<b><u>Diesel</u></b>		
Diesel Efficiency Factor (per D&O), BTU/kWh*	f	10,480
Diesel Deadband Definition, +/- BTU/kWh	d	<b>200</b>
Diesel Portion of Recorded Sales, MWh	a	87,261,546
Diesel Consumption (Recorded), MMBTU	b	916,267
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	10,500
Lower limit of Diesel Deadband, BTU/kWh	e= f-d	10,280
Higher limit of Diesel Deadband, BTU/kWh	g=f+d	10,680
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>10,500</b>
<b><u>Biodiesel</u></b>		
Biodiesel Efficiency Factor (per D&O), BTU/kWh*	f	0
Biodiesel Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Biodiesel Portion of Recorded Sales, MWh	a	0
Biodiesel Consumption (Recorded), MMBTU	b	0
Biodiesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	0
Lower limit of Biodiesel Deadband, BTU/kWh	e= f-d	-100
Higher limit of Biodiesel Deadband, BTU/kWh	g=f+d	100
Biodiesel Efficiency Factor for cost-recovery, BTU/kW	h=c, e, or g	<b>0</b>
<b><u>Hydro</u></b>		
Hydro Efficiency Factor (per D&O), BTU/kWh*	f	12,395
Hydro Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Hydro Portion of Recorded Sales, MWh	a	2,122,315
Hydro Consumption (Recorded), MMBTU	b	25,415
Hydro Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	11,975
Lower limit of Hydro Deadband, BTU/kWh	e= f-d	12,295
Higher limit of Hydro Deadband, BTU/kWh	g=f+d	12,495
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>12,295</b>

\* YTD Efficiency Factor (per D&O) is actual YTD & projected to the end of the year weighted by calendar days in the year.

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST**  
**WITHOUT and WITH DEADBAND**  
**2019**

	<b>Without Deadband</b>	<b>With Deadband</b>
	<b>Jan 1 - Mar 31</b>	<b>As Filed</b>
	<b>Jan 1 - Mar 31</b>	<b>Jan 1 - Mar 31</b>
<b><u>INDUSTRIAL FUEL FILING COST</u></b>		
Industrial Portion of Recorded Sales , kWh	44,508,588	44,508,588
Industrial Efficiency Factor (mmbtu/kwh)	0.014569	0.014669
Mmbtu adjusted for Sales Efficiency Factor	648,446	652,896
\$/mmbtu	<u>\$10.5585</u>	<u>\$10.5585</u>
<b>TOTAL INDUSTRIAL \$000s TO BE RECOVERED</b>	<b>\$6,846.636</b>	<b>\$6,893.630</b>
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, kWh	87,261,546	87,261,546
Diesel Efficiency Factor (mmbtu/kwh)	0.010480	0.010500
Mmbtu adjusted for Sales Efficiency Factor	914,501	916,246
\$/mmbtu	<u>\$15.0481</u>	<u>\$15.0481</u>
<b>TOTAL DIESEL \$000s TO BE RECOVERED</b>	<b>\$13,761.506</b>	<b>\$13,787.769</b>
<b><u>HYDRO FUEL FILING COST</u></b>		
Hydro Portion of Recorded Sales , kWh	2,122,315	2,122,315
Hydro Efficiency Factor (mmbtu/kwh)	0.012395	0.012295
Mmbtu adjusted for Sales Efficiency Factor	26,306	26,094
\$/mmbtu	<u>\$0.0000</u>	<u>\$0.0000</u>
<b>TOTAL HYDRO \$000s TO BE RECOVERED</b>	<b>\$0.000</b>	<b>\$0.000</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s</b>	<b>\$20,608.1</b>	<b>\$20,681.4</b>
<b><u>CALCULATION OF GENERATION BASE FUEL COST</u></b>		
<b>TOTAL GENERATION BASE FUEL COST, \$000s</b>	<b>\$3,791.0</b>	<b>\$3,791.0</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s YTD</b>	<b>\$20,608.1</b>	<b>\$20,681.4</b>
<b>TOTAL GENERATION BASE FUEL COST YTD</b>	<b>\$3,791.0</b>	<b>\$3,791.0</b>

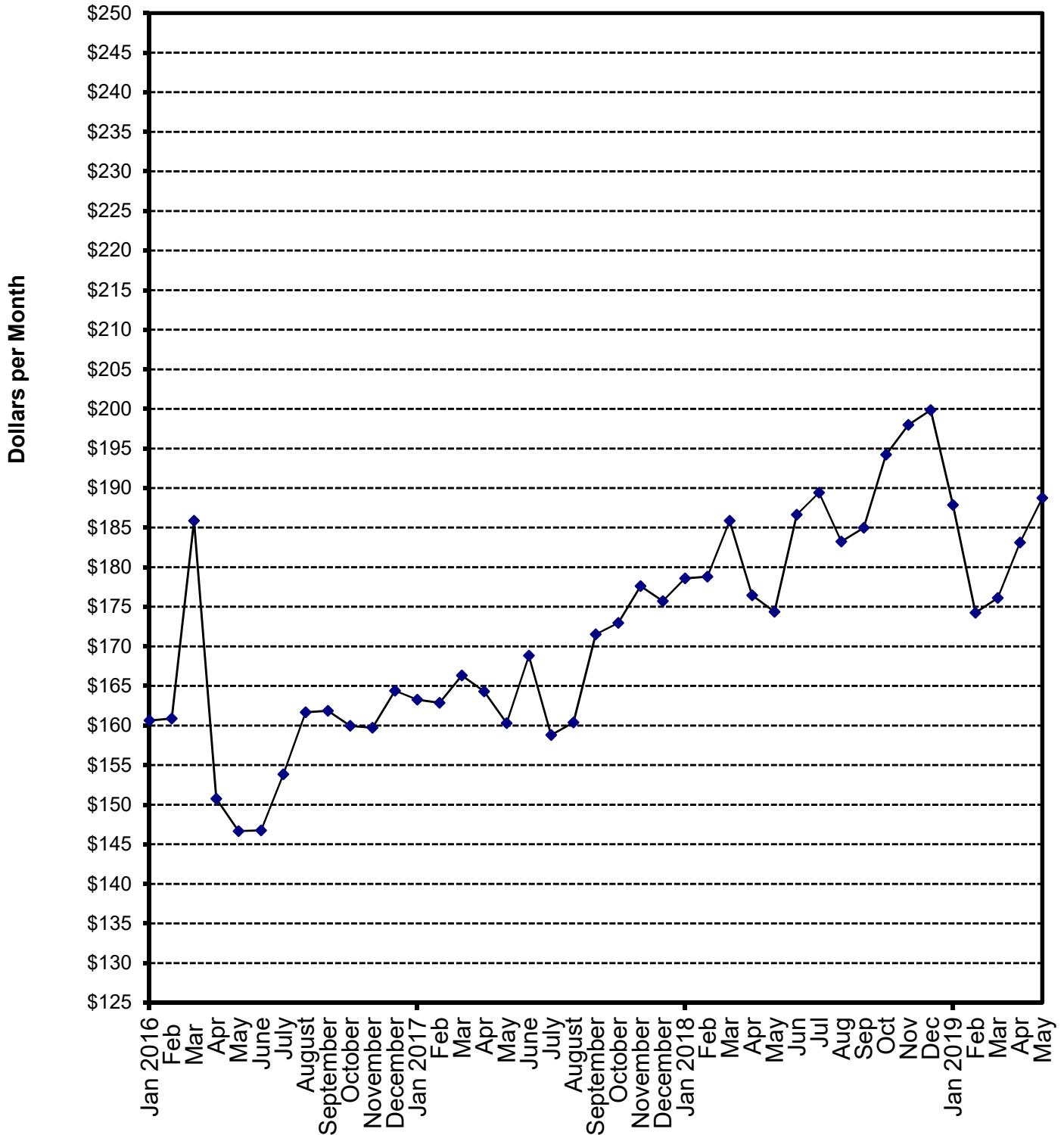
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2019 Cumulative Reconciliation Balance

<u>Month</u>	(1) <u>YTD FOA Reconciliation</u>	<u>Qtr</u>	(2) <u>FOA Rec Adjust Variance</u>	(3) <u>FOA Rec Less Variance</u>	(4) <u>Try to Collect</u>	(5) <u>Actual Collect</u>	(6) <u>Month-end Cumulative Balance</u>
January 18					(238,067)	(242,224)	1,462
February	825,100	[4]	(29,783)	854,883	(275,033)	(279,869)	576,476
March					(275,033)	(283,895)	292,581
April					(275,033)	(291,829)	752
May	1,153,900	(1)	(17,855)	1,171,755	(384,633)	(398,709)	773,798
June					(384,633)	(387,715)	386,083
July					(384,633)	(399,033)	(12,950)
August	699,900	[2]	(33,954)	733,854	(233,300)	(244,658)	476,246
September					(233,300)	(240,110)	236,136
October					(233,300)	(241,346)	(5,210)
November	917,000	[3]	(32,568)	949,568	(305,667)	(309,251)	635,107
December 18					(305,667)	(302,091)	333,016
January 19					(305,667)	(300,243)	32,773
February	2,598,900	[4]	(8,054)	2,606,954	(866,300)	(800,636)	1,839,091
March					(866,300)	(825,091)	1,014,000
April					(866,300)		
May	1,745,900	(1)	112,297	1,633,603	(581,967)		

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</u>		
	<u>CENTS / KWH</u>	<u>RESIDENTIAL &amp; RESIDENTIAL BILL (\$)</u>	
	<u>COMMERCIAL</u>	<u>@ 500 KWH</u>	<u>@ 600 KWH</u>
January 1, 2015	2.369	189.62	227.20
February 1, 2015	0.485	179.22	214.71
March 1, 2015	-0.519	174.32	208.85
April 1, 2015	-0.990	170.37	204.10
May 1, 2015	-0.420	175.10	209.79
June 8, 2015	-0.579	175.16	209.85
July 1, 2015	0.264	178.14	213.38
August 1, 2015	-0.586	174.16	208.61
September 1, 2015	-0.927	172.43	206.54
October 1, 2015	-1.671	168.73	202.10
November 1, 2015	-2.727	163.20	195.47
December 1, 2015	-2.859	162.59	194.74
January 1, 2016	-3.223	160.63	192.41
February 1, 2016	-2.962	160.87	192.69
March 1, 2016	-4.311	154.26	184.76
April 1, 2016	-4.715	150.76	180.57
May 1, 2016	-5.554	146.66	175.64
June 1, 2016	-5.546	146.74	175.74
July 1, 2016	-4.248	153.85	184.31
August 1, 2016	-3.094	161.67	193.69
September 1, 2016	-3.040	161.85	193.90
October 1, 2016	-3.427	159.97	191.65
November 1, 2016	-3.514	159.72	191.35
December 1, 2016	-2.584	164.41	196.97
January 1, 2017	-2.842	163.27	195.58
February 1, 2017	-2.956	162.87	195.09
March 1, 2017	-2.274	166.31	199.24
April 1, 2017	-2.425	164.31	196.83
May 1, 2017	-3.035	160.30	192.02
June 1, 2017	-1.343	168.82	202.25
July 1, 2017	-3.220	158.79	190.22
August 1, 2017	-3.643	160.39	192.15
September 1, 2017	-2.447	171.52	205.50
October 1, 2017	-2.131	172.97	207.23
November 1, 2017	-0.885	177.60	212.80
December 1, 2017	-1.405	175.02	209.69
January 1, 2018	-0.723	178.59	213.95
February 1, 2018	-0.579	178.81	214.22
March 1, 2018	0.816	185.87	222.68
April 1, 2018	-0.912	176.46	211.39
May 1, 2018	-0.452	174.38	208.90
June 1, 2018	2.301	186.65	223.63
July 1, 2018	2.831	189.43	226.97
August 1, 2018	1.665	183.25	219.55
September 1, 2018	2.027	184.98	221.62
October 1, 2018	8.359	194.21	232.50
November 1, 2018	8.913	197.99	237.04
December 1, 2018	9.292	199.86	239.29
January 1, 2019	6.867	187.86	224.86
February 1, 2019	14.631	174.25	208.53
March 1, 2019	14.976	176.1	210.75
April 1, 2019	16.469	183.12	219.17
May 1, 2019	17.396	188.74	225.93

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
04/09/12	FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)	
1/1/2016-1/31/2016	PURCHASED POWER ADJUSTMENT CLAUSE	2.3260 CENTS/KWH
1/1/2016-06/30/16	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
2/1/2016 - 2/29/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1114 CENTS/KWH
3/1/2016 - 3/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1401 CENTS/KWH
4/1/2016 - 4/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1228 CENTS/KWH
4/1/2016 - 4/30/16	SOLARSAVER ADJUSTMENT	-0.2779 CENTS/KWH
5/1/2016 - 5/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8623 CENTS/KWH
5/1/2016	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2016 - 6/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8442 CENTS/KWH
6/1/2016	RBA RATE ADJUSTMENT	1.4241 CENTS/KWH
7/1/2016-7/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8909 CENTS/KWH
7/1/2016	GREEN INFRASTRUCTURE FEE	1.1300 DOLLARS/MONTH
7/1/2016	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.5865 CENTS/KWH
8/1/2016-8/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3000 CENTS/KWH
9/1/2016-9/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.2824 CENTS/KWH
10/1/2016-10/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.2930 CENTS/KWH
11/1/2016-11/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3298 CENTS/KWH
12/1/2016-12/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3371 CENTS/KWH
1/1/2017-1/31/2017	PURCHASED POWER ADJUSTMENT CLAUSE	2.3400 CENTS/KWH
1/1/2017	GREEN INFRASTRUCTURE FEE	1.2700 DOLLARS/MONTH
2/1/2017 - 2/28/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3737 CENTS/KWH
3/1/2017 - 3/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3809 CENTS/KWH
4/1/2017-4/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3781 CENTS/KWH
4/1/2017-4/30/17	SOLARSAVER ADJUSTMENT	-0.2462 CENTS/KWH
5/1/2017-5/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	1.9396 CENTS/KWH
5/1/2017	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2017-6/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	1.9225 CENTS/KWH
6/1/2017	RBA RATE ADJUSTMENT	1.4533 CENTS/KWH
7/1/2017 - 7/31/2017	PURCHASED POWER ADJUSTMENT CLAUSE	1.9710 CENTS/KWH
7/1/2017- 12/31/17	GREEN INFRASTRUCTURE FEE	1.1800 DOLLARS/MONTH
7/1/2017	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4244 CENTS/KWH
8/1/2017-8/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7161 CENTS/KWH
9/1/2017-9/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7515 CENTS/KWH
8/31/2017-4/30/18	INTERIM RATE INCREASE 2016	5.8800 PERCENT ON BASE
8/31/2017	RBA RATE ADJUSTMENT	0.6313 CENTS/KWH
10/1/2017 - 10/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7257 CENTS/KWH
11/1/2017 - 11/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.4067 CENTS/KWH
12/1/2017 - 12/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.4090 CENTS/KWH
1/1/2018 - 1/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.4105 CENTS/KWH
1/1/18-6/30/18	GREEN INFRASTRUCTURE FEE	1.3400 DOLLARS/MONTH
2/1/18-2/28/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3101 CENTS/KWH
3/1/18 - 3/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3258 CENTS/KWH
04/1/18-04/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3184 CENTS/KWH
04/1/18-04/30/18	SOLARSAVER ADJUSTMENT	-0.1464 CENTS/KWH
05/1/18-05/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.3395 CENTS/KWH
05/1/18-05/31/18	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
5/1/2018	INTERIM RATE INCREASE 2016	2.5000 PERCENT ON BASE
06/01/18-06/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.6729 CENTS/KWH
<b>6/1/2018</b>	<b>RBA RATE ADJUSTMENT</b>	<b>1.0006 CENTS/KWH</b>
07/01/18-07/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.6811 CENTS/KWH
7/1/2018- 12/31/18	GREEN INFRASTRUCTURE FEE	1.2100 DOLLARS/MONTH
<b>7/1/2018</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.4658 CENTS/KWH</b>
08/01/18-08/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.6110 CENTS/KWH
09/01/18-09/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.5950 CENTS/KWH
10/01/18-10/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	1.8602 CENTS/KWH
<b>10/1/2018</b>	<b>INTERIM RATE INCREASE 2016</b>	<b>0.0000 PERCENT ON BASE</b>
<b>10/1/2018</b>	<b>FINAL RATE INCREASE (TY 2016) 0.53% EFFECTIVE 10/01/18, DOCKET NO. 2015-0170</b>	
11/1/2018-11/30/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.0617 CENTS/KWH
12/1/2018-12/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.0577 CENTS/KWH
1/1/2019-1/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	2.0548 CENTS/KWH
<b>1/1/2019- 06/30/19</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.3500 DOLLARS/MONTH</b>
2/1/2019-2/28/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.8113 CENTS/KWH
3/1/2019-3/31/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.8372 CENTS/KWH
04/1/2019-4/30/19	PURCHASED POWER ADJUSTMENT CLAUSE	1.8247 CENTS/KWH
04/1/19-04/30/19	SOLARSAVER ADJUSTMENT	-0.0768 CENTS/KWH
<b>05/01/2019-5/31/19</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.9460 CENTS/KWH</b>
<b>05/01/2019</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>

\*\*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			
	04/01/19	05/01/19	04/01/19	05/01/19	Difference	
<b>Base Rates</b>	effective date:	2/1/2019	2/1/2019			
Base Fuel Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$71.85	\$71.85	\$0.00
First 300 kWh per month	¢/kwh	13.0289	13.0289	\$39.09	\$39.09	\$0.00
Next 700 kWh per month	¢/kwh	16.3807	16.3807	\$32.76	\$32.76	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
<b>Total Base Charges</b>				\$83.35	\$83.35	\$0.00
<b>Interim Rate Increase 2016 TY</b>	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.0006	1.0006	\$5.00	\$5.00	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.8247	1.9460	\$9.12	\$9.73	\$0.61
<b>PBF Surcharge</b>	¢/kwh	0.4658	0.4658	\$2.33	\$2.33	\$0.00
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	(0.0768)	0.0000	-\$0.38	\$0.00	\$0.38
<b>Energy Cost Recovery</b>	¢/kwh	16.4690	17.3960	\$82.35	\$86.98	\$4.63
<b>Green Infrastructure Fee</b>	\$	1.3500	1.3500	\$1.35	\$1.35	\$0.00
<b>Avg Residential Bill at 500 kwh</b>				\$183.12	\$188.74	

Increase (Decrease -)	\$5.62
% Change	3.07%

	Rate		Charge (\$) at 600 Kwh			
	04/01/19	05/01/19	04/01/19	05/01/19	Difference	
<b>Base Rates</b>	effective date:	2/1/2019	2/1/2019			
Base Fuel/Energy Charge	¢/kwh	-	-	\$0.00	\$0.00	\$0.00
Non-Fuel Energy Charge	¢/kwh			\$88.23	\$88.23	\$0.00
First 300 kWh per month	¢/kwh	13.0289	13.0289	\$39.09	\$39.09	\$0.00
Next 700 kWh per month	¢/kwh	16.3807	16.3807	\$49.14	\$49.14	\$0.00
Customer Charge	\$	11.50	11.50	\$11.50	\$11.50	\$0.00
<b>Total Base Charges</b>				\$99.73	\$99.73	\$0.00
<b>Interim Rate Increase 2016 TY</b>	% on base	0.0000%	0.0000%	\$0.00	\$0.00	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.0006	1.0006	\$6.00	\$6.00	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.8247	1.9460	\$10.95	\$11.68	\$0.73
<b>PBF Surcharge</b>	¢/kwh	0.4658	0.4658	\$2.79	\$2.79	\$0.00
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	(0.0768)	0.0000	-\$0.46	\$0.00	\$0.46
<b>Energy Cost Recovery</b>	¢/kwh	16.4690	17.3960	\$98.81	\$104.38	\$5.57
<b>Green Infrastructure Fee</b>	\$	1.3500	1.3500	\$1.35	\$1.35	\$0.00
<b>Avg Residential Bill at 600 kwh</b>				\$219.17	\$225.93	

Increase (Decrease -)	\$6.76
% Change	3.08%