



JAY IGNACIO, P. E.  
President

July 27, 2018

FILED

2018 JUL 27 P 3:38

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

PUBLIC UTILITIES  
COMMISSION

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Adjustment Factor for August 2018

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for August 2018 is 1.665 cents per kilowatt-hour ("kWh"), a decrease of 1.166 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$183.25 a decrease of \$6.18 compared to rates effective July 1, 2018. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$5.83) and the decrease in the Purchase Power Adjustment Clause rate (-\$0.35).

Hawai'i Electric Light's fuel composite cost of generation decreased 112.80 cents per million BTU to 1,425.42 cents per million BTU. The distributed generation decreased 0.130 cents per kWh to 15.642 cents per kWh. The composite cost of purchased energy decreased 0.133 cents per kWh to 14.670 cents per kWh.

The attached sheets set forth the energy cost adjustment in cents per kWh for each rate schedule that is applicable for pro rata use beginning August 1, 2018.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>07/01/18</u>	<u>08/01/18</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,538.22	1,425.42	(112.80)
Dispersed Generation Energy, ¢/kWh	15.772	15.642	(0.130)
Purchased Energy, ¢/kWh	14.803	14.670	(0.133)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	2.831	1.665	(1.166)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	2.831	1.665	(1.166)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$189.43	\$183.25	(\$6.18)
600 KWH Consumption - \$/Bill	\$226.97	\$219.55	(\$7.42)

HAWAII ELECTRIC LIGHT COMPANY, INC.  
ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2018 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	August 1, 2018
2	Supercedes Factors of	July 1, 2018

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>			
FUEL PRICES, ¢/mmbtu			
3			
4	Hill Industrial		1,202.05
5	Puna Industrial		1,220.82
6	Keahole Diesel		1,670.42
6a	Keahole ULSD		1,586.08
7	Waimea ULSD Diesel		1,578.41
8	Hilo Diesel		1,643.41
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,558.61
9	Puna Diesel		1,642.48
10	Wind		0.00
11	Hydro		0.00
BTU MIX, %			
12			
13	Hill Industrial		28.765
14	Puna Industrial		7.179
15	Keahole Diesel		51.591
15a	Keahole ULSD		1.348
16	Waimea ULSD Diesel		0.573
17	Hilo Diesel		0.323
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.284
18	Puna Diesel		5.483
19	Wind		0.000
20	Hydro		4.454
			100.000
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmbt		1,425.42
22	% Input to System kWh Mix		51.780
EFFICIENCY FACTOR, mmbtu/kWh			
	(A)	(B)	(C) (D)
			Percent of
			Centrl Stn +
			Wind/Hydro
	<u>Fuel Type</u>	<u>Eff Factor</u>	<u>Weighted</u>
		<u>mmbtu/kwh</u>	<u>Eff Factor</u>
23	Industrial	0.015148	35.944 0.005445
24	Diesel	0.010424	59.602 0.006213
25	Other	0.012621	4.454 0.000562
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)		
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]		0.0122200
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))		9.01937
28	BASE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/mmbtu		1,224.44
29	Base % Input to Sys kWh Mix		46.06
30	Efficiency Factor, mmbtu/kwh		0.012621
31	WEIGHTED BASE CENTRAL STATION + WIND/HYDRO GENERATION COST ¢/kWh (Lines (28 x 29 x 30))		7.11795
32	COST LESS BASE (Line 27 - 31)		1.90142
33	Revenue Tax Req Multiplier		1.0975
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))		2.08681

<b><u>DG ENERGY COMPONENT</u></b>		
35	COMPOSITE COST OF DG ENERGY, ¢/kWh	15.642
36	% Input to System kWh Mix	1.069
37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.16721
38	BASE DG ENERGY COMPOSITE COS'	15.702
39	Base % Input to System kWh Mix	0.06
40	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 38 x 39)	0.00942
41	Cost Less Base (Line 37 - 40)	0.15779
42	Loss Factor	1.067
43	Revenue Tax Req Multiplier	1.0975
44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.18478

<b>SUMMARY OF</b>		
TOTAL GENERATION FACTOR, ¢/kWh		
45	Cntrl Stn+Wind/Hydro (line 34)	2.08681
46	DG (line 44)	0.18478
47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	2.27159

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

HAWAII ELECTRIC LIGHT COMPANY, INC.  
ENERGY COST ADJUSTMENT (ECA) FILING

ENERGY COST ADJUSTMENT (ECA) FILING - August 1, 2018 (Page 2 of 2)

Line	<b>PURCHASED ENERGY COMPONENT</b>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		15.246
49	PGV	On Peak	15.427
50	PGV	Off Peak	15.132
51	PGV - Add'l 5 MW	On Peak	12.860
52	PGV - Add'l 5 MW	Off Peak	12.860
53	PGV - Add'l 8 MW	On Peak	6.540
54	PGV - Add'l 8 MW	Off Peak	6.540
55	Wailuku Hydro	On Peak	15.427
56	Wailuku Hydro	Off Peak	15.132
57	Hawi Renewable Dev.	On Peak	15.427
58	Hawi Renewable Dev.	Off Peak	15.132
59	Tawhiri (Pakini Nui)	On Peak	11.620
60	Tawhiri (Pakini Nui)	Off Peak	11.550
61			
62	Small Hydro (>100 KW)	On Peak	15.427
63	Small Hydro (>100 KW)	Off Peak	15.132
64	Sch Q Hydro (<100 KW)		14.900
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		67.853
67	PGV	On Peak	0.000
68	PGV	Off Peak	0.000
69	PGV - Addt'l	On Peak	0.000
70	PGV - Addt'l	Off Peak	0.000
71	PGV - Add'l 8 MW	On Peak	0.000
72	PGV - Add'l 8 MW	Off Peak	0.000
73	Wailuku Hydro	On Peak	3.565
74	Wailuku Hydro	Off Peak	2.492
75	Hawi Renewable Dev.	On Peak	4.894
76	Hawi Renewable Dev.	Off Peak	2.365
77	Tawhiri (Pakini Nui)	On Peak	10.804
78	Tawhiri (Pakini Nui)	Off Peak	6.996
79			
80	Small Hydro (>100 KW)	On Peak	0.000
81	Small Hydro (>100 KW)	Off Peak	0.000
82	Sch Q Hydro (<100 KW)		0.269
83	FIT		0.762
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		14.670
85	% Input to System kWh Mix		47.151
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.91705
87	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh		13.354
88	Base % Input to Sys kWh Mix		53.88
89	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (Lines (87 x 88))		7.19514
90	COST LESS BASE (Lines (86 - 89))		(0.27809)
91	Loss Factor		1.067
92	Revenue Tax   *		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.32565)

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))	1.94594
95	Not Used	0.000
96	Not Used	0.000
97	ECA Reconciliation Adjustment	(0.281)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))	1.665

**Hawaii Electric Light Company, Inc.**  
FUEL OIL INVENTORY PRICES FOR August 1, 2018

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	75.7289	75.7289
Land Transportation Cost - \$/BBL	--	1.1827
	<hr/>	
Industrial Costs For Filing - \$/BBL	75.7289	76.9116
Conversion Factors - mmbtu/BBL	6.30	6.30
	<hr/>	
Industrial Costs For Filing - ¢/mmbtu	1,202.05	1,220.82
	<hr/> <hr/>	

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	95.0728	95.0728	95.0728
Land Transportation Cost - \$/BBL	2.8135	1.1765	1.2312
	<hr/>		
Diesel Costs For Filing - \$/BBL	97.8863	96.2493	96.3040
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
	<hr/>		
Diesel Costs For Filing - ¢/mmbtu	1,670.42	1,642.48	1,643.41
	<hr/> <hr/>		

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	88.1057	88.1057	88.1057	88.1057
Land Transportation Cost - \$/BBL	2.7767	2.3374	1.2029	-
	<hr/>			
ULSD Costs For Filing - \$/BBL	90.8825	90.4431	89.3086	88.1057
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
	<hr/>			
ULSD Costs For Filing - ¢/mmbtu	1,586.08	1,578.41	1,558.61	1,537.62
	<hr/> <hr/>			

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	1372.3247
\$/BBI Inv Cost:	88.1057
	<hr/>
Fuel \$ (Prod Sim Consumption x Unit Cost)	120,909.68
Net kWh (from Prod Sim)	773,000
cents/kWh:	15.642

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
July 2018

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 06/30/2018	0	0.00	46,032	3,470,834.07			
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	(26,759)	(2,002,625.96)			
Actual	0	0.00	24,027	1,800,238.88			
Consumed: Estimate	0	0.00	14,672	1,016,203.26			
Actual	0	0.00	(19,582)	(1,356,276.73)			
Balance Per G/L 06/30/2018	<u>0</u>	<u>0.00</u>	<u>38,390</u>	<u>2,928,373.52</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	35,415	2,633,747.90			
Consumed	<u>0</u>	<u>0.00</u>	<u>(33,796)</u>	<u>(2,562,934.88)</u>	106.5901	0.0000	106.5901
Balance @ 07/31/2018	0	0.00	40,009	2,999,186.54			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 07/31/2018	<u>0</u>	<u>0.00</u>	<u>40,009</u>	<u>2,999,186.54</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,999,186.54)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	3,029,836.98			
Total @ 08/01/2018 Avg Price	<u>0</u>	<u>0.00</u>	<u>40,009</u>	<u>3,029,836.98</u>			

Weighted Avg Cost/BBL by Location #DIV/0! 74.9628

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 75.7289

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
July 2018

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 06/30/2018	5,858	473,804.66	7,967.42			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	(5,571)	(416,650.12)	(6,661.47)			
Actual	5,456	416,239.37	6,613.64			
Consumed: Estimate	5,700	394,789.98	6,942.10			
Actual	<u>(5,776)</u>	<u>(400,053.85)</u>	<u>(7,034.66)</u>			
Balance Per G/L 06/30/2018	<u>5,667</u>	<u>468,130.04</u>	<u>7,827.03</u>			
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxxxxxx			
Transfer in	6,693	516,156	8,003.09			
Consumed	(6,831)	<u>(518,031.96)</u>	(9,290.79)	75.8355	1.3601	77.1955
Balance @ 07/31/2018	<u>5,529</u>	<u>466,254.04</u>	<u>6,539.33</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>5,529</u>	<u>466,254.04</u>	<u>6,539.33</u>		<u>1.1827</u>	
Reverse Fuel Balance	xxxxxxxxxxxx	(466,254.04)	xxxxxxxxxxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	418,705.01	xxxxxxxxxxxxxxxxxxxxxxxx			
Total @ 08/01/2018 Avg Price	<u>5,529</u>	<u>418,705.01</u>	<u>6,539.33</u>			

Weighted Avg Cost/BBL by Location

84.3288

1.1827

Weighted Avg Cost/BBL @ Avg Cost

75.7289

1.1827

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
July 2018

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 06/30/2018	53,692.0	2,255,062.0	5,795,819.1	151,390.6			
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	(51,389.8)	(2,158,373.0)	(5,531,521.7)	(146,121.9)			
Actual	49,562.0	2,081,603.0	5,080,956.3	139,644.79			
Consumed: Estimate	49,858.8	2,094,071.0	5,131,624.7	139,714.17			
Actual	(45,665.4)	(1,917,947.0)	(4,700,024.1)	(127,963.4)	102.9231		
Balance Per G/L 06/30/2018	56,057.5	2,354,416	5,776,854.27	156,664.39	103.0523		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	46,136.5	1,937,731.0	4,519,823.9	131,184.4	97.9664		
Consumed	(52,997.8)	(2,225,909.0)	(5,751,567.8)	(149,433.49)	108.5246	2.8196	111.3442
Balance @ 07/31/2018	49,196.1	2,066,238	4,545,110.34	138,415.29	92.3875		
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	49,196.1	2,066,238	4,545,110.34	138,415.29	92.3875		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(4,545,110.3)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	4,677,215.2	xxxxxxxxxxxxxxxx			
Total @ 08/01/2018 Avg Price	49,196.1	2,066,238	4,677,215.19	138,415.29	95.0728		

Weighted Avg Cost/BBL by Location 92.3875 2.8135

Weighted Avg Cost/BBL @ Avg Cost 95.0728 2.8135



HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
July 2018

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 06/30/2018	4,439.2	186,447.0	534,196.4	5,396.3			
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	(558.3)	(23,449.0)	(58,561.0)	(619.1)			
Actual	1,630.2	68,467.0	189,986.7	2,086.3			
Consumed: Estimate	1,999.6	83,984.0	205,807.0	2,327.1			
Actual	(2,039.1)	(85,643.0)	(209,872.4)	(2,373.1)			
Balance Per G/L 06/30/2018	5,471.6	229,806	661,556.63	6,817.55			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	3,185.4	133,787.0	298,720.0	3,532.0	93.7777		
Consumed	(4,214.2)	(176,996)	(457,343.27)	(5,122.71)	108.5246	1.2156	109.7402
Balance @ 07/31/2018	4,442.8	186,597	502,933.39	5,226.81	113.2023		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 07/31/2018	4,442.8	186,597	502,933.39	5,226.81	113.2023		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(502,933.39)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	422,388.09	XXXXXXXXXXXXXXXXXXXX			
Total @ 08/01/2018 Avg Price	4,442.8	186,597	422,388.09	5,226.81	95.0728		

Weighted Avg Cost/BBL by Location

113.2023 1.1765

Weighted Avg Cost/BBL @ Avg Cost

95.0728 1.1765

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
July 2018

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 06/30/2018	1431.5	60,124	132,842	1,761			
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	0.0	0.0	0.0	0.0			
Actual	-0.6	-25.0	0.0	0.0			
Consumed: Estimate	0.4	18.0	44.1	0.5			
Actual	-38.8	-1629.0	-3991.9	-47.7			
Balance Per G/L 06/30/2018	1392.6	58,488	128,894.20	1,714.26	92.5584		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	-0.9	-38.0	0.0	-0.9	#DIV/0!		
Consumed	-90.9	-3818.0	-9865.4	-111.9	108.5246	1.2305	109.7551
Balance @ 07/31/2018	1,300.8	54,632	119,028.80	1,601.52	91.5070		
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	1,300.8	54,632	119,028.80	1,601.52	91.5070		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -119,028.80	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 123,667.08	XXXXXXXXXXXX			
Total @ 08/01/2018 Avg Price	1,300.8	54,632	123,667.08	1,601.52	95.0728		

Weighted Avg Cost/BBL by Location

91.5070 1.2312

Weighted Avg Cost/BBL @ Avg Cost

95.0728 1.2312

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
July 2018

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 06/30/2018	2,161.3	90,773	185,666.95	5,999.59			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(19,471.20)	(540.25)			
Actual	188.5	7,916	19,332.20	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(31)	0.00	(2.10)			
Actual		166	0.00	535.91			
Consumed: Estimate	110.8	4,653	9,328.27	307.06			
Actual	(130.0)	(5,461)	(10,955.46)	(360.42)	84.2573		
Balance Per G/L 06/30/2018	2,143.7	90,036	183,900.76	5,939.79	85.7860		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	19,311.60	540.25			
Transfer in	(1.2)	(50)	0.00	(3.39)	0.00		
Consumed	(183.3)	(7,700)	(16,284.90)	(508.93)	88.8267	2.7760	91.6027
Balance @ 07/31/2018	2,149.2	90,266	186,927.46	5,967.72	86.9758		
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	2,149.2	90,266	186,927.46	5,967.72	86.9758		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(186,927.46)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	189,356.00	xxxxxxxxxxxx			
Total @ 08/01/2018 Avg Price	2,149.2	90,266	189,356.00	5,967.72	88.1057		

Weighted Avg Cost/BBL by Location

86.9758 2.7767

Weighted Avg Cost/BBL @ Avg Cost

88.1057 2.7767

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
July 2018

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 06/30/2018	1,602.3	67,296.0	136,674.9	3,739.27			
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	(14.5)	(607)	0.00	0.00			
Actual	(7.1)	(297)	0.00	0.00			
Consumed: Estimate	36.2	1,520	3,047.27	85.32			
Actual	(57.2)	(2,404)	(4,815.85)	(134.95)			
Balance Per G/L 06/30/2018	1,559.7	65,508	134,906.32	3,689.64	86.4943		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	190.0	7,980	19,311.60	450.07			
Transfer in	xxxxxxxxxxxx	908	0.00	0.00	#DIV/0!		
Consumed	(143.5)	(6,025)	(12,742.41)	(334.78)	88.8267	2.3337	91.1604
Balance @ 07/31/2018	1,627.9	68,371	141,475.51	3,804.94	86.9078		
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	1,627.9	68,371	141,475.51	3,804.94	86.9078		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(141,475.51)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	143,425.64	xxxxxxxxxxxx			
Total @ 08/01/2018 Avg Price	1,627.9	68,371	143,425.64	3,804.94	88.1057		
Weighted Avg Cost/BBL by Location			86.9078	2.3374			
Weighted Avg Cost/BBL @ Avg Cost			88.1057	2.3374			

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
July 2018

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 06/30/2018	1,324.5	55,630.0	130,093.7	1,801.8		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	0	0.00	0.00		
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	209.4	8,796	967.04	26.58		
Actual	(182.2)	(7,653)	(15,338.97)	(221.94)		
Balance Per G/L 06/30/2018	1,351.7	56,773	115,721.72	1,606.43		
ULSD Purchases	188	7,899	19,087.27	184.05	2.42	
Estimated Purchases	0	-	-	-		
Transfer in	(2)	(95)	0.00	(2.21)		
Consumed	(73.0)	(3,067)	(967.04)	(26.58)	88.82673389	1.3603
Balance @ 07/31/2018	1,464.5	61,510	133,841.95	1,761.68		
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	1,464.5	61,510	133,841.95	1,761.68		
Reverse Fuel Balance	x	x	(133,841.95)	x		
Fuel Balance @ Avg Price	x	x	129,032.94	x		
Total @ 08/01/2018 Avg Price	1,464.5	61,510	129,032.94	1,761.68		
Weighted Avg Cost/BBL by Location			91.3894	1.2029		
Weighted Avg Cost/BBL @ Avg Cost			88.1057	1.2029		

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
July 2018

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 06/30/2018	82.2	3,452	6,821.98	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	8.5	357	715.71	
Actual	(7.8)	(327)	(655.57)	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Balance Per G/L 06/30/2018	82.90	3,482	6,882.12	83.0124
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Consumed	(11.2)	(470)	(994.01)	88.8267
Balance @ 07/31/2018	71.7	3,012	5,888.11	82.1051
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 07/31/2018	71.7	3,012	5,888.11	
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(5,888.11)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	6,318.44	xxxx
Total @ 08/01/2018 Avg Price	71.7	3,012	6,318.44	88.1057

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**CONTRACT PRICES EFFECTIVE July 1, 2018**

TYPE OF OIL BURNED

<b>INDUSTRIAL *</b>	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	64.75	4.0790	64.75	4.0790
Ocean Transportation	41.20	2.5015	39.71	2.5015
Storage	29.89	2.0521	32.57	2.0521
Wharfage	6.43	0.3900	6.19	0.3900
Fees <sup>2</sup>	2.26	0.1425	2.26	0.1425
<b>DIESEL *</b>	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	96.91	5.6783	96.91	5.6783
Ocean Transportation	42.69	2.5015	42.69	2.5015
Storage	27.20	1.5937	27.20	1.5937
Wharfage	6.66	0.3900	6.66	0.3900
Fees <sup>2</sup>	3.33	0.1950	3.33	0.1950
<b>ULSD **</b>	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	96.91	5.6783	96.91	5.6783
Ocean Transportation	42.69	2.5015	42.69	2.5015
Storage	27.20	1.5937	27.20	1.5937
Wharfage	6.66	0.3900	6.66	0.3900
Fees <sup>2</sup>	3.33	0.1950	3.33	0.1950
<b>ULSD **</b>	<u>ULSD</u>			
	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax <sup>1</sup>	26.38	2.0094		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees <sup>2</sup>	3.40	0.1950		

<sup>1</sup> Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

<sup>2</sup> Fees include Custom Duty and Fed Oil Spill Recovery

inventory, contract prices for the current month are being provided.  
 Contract prices are considered accurate pending actual delivery of fuel.

\* Land Transportation Costs are shown in Attachment 3, Sheet 1.

\*\* ULSD includes Waimea, Kanoelehua, and Keahole.

Reference: Decision and Order No. 16134, Docket No. 96-0040.

**Hawaii Electric Light Company, Inc.**  
PURCHASED POWER PRICES FOR August 1, 2018

		<u>August 1, 2018</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
PGV (25 MW)	- on peak	15.427	6.560
PGV (22 MW)	- off peak	15.132	5.430
WAILUKU HYDRO	- on peak	15.427	7.240
	off peak	15.132	5.970
Other: (<100 KW)	Sch Q Rate	14.900	
		<u>August 1, 2018</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
HEP		15.246	
PGV Addtl 5 MW	- on peak	12.8600	0.0000
	- off peak	12.8600	0.0000
PGV Addtl 8 MW	- on peak	6.5400	0.0000
	- off peak	6.5400	0.0000



**Hawaii Electric Light Company, Inc.**  
**Energy Cost Reconciliation Adjustment**  
August 1, 2018

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$699,900)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$233,300)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$256,050)
5	Estimated MWh Sales (August 1, 2018)	91,135 mwh
6	Adjustment (Line 4 / Line 5)	(0.281) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC.  
2018 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)

<u>LINE</u>	<u>DESCRIPTION</u>	Info Only June 2018 YTD Total <u>No Deadband</u>	collectn by <u>company*</u>	Basis for Recon June 2018 YTD Total <u>Deadband</u>	Collection or Refund by <u>Company</u>
ACTUAL COSTS:					
1	Generation	\$37,915.6		\$37,915.6	
2	Distributed Generation	\$3.3		\$3.3	
3	Purch Power	\$38,543.0		\$38,543.0	
4	TOTAL	<u>\$76,461.9</u>		<u>\$76,461.9</u>	
FUEL FILING COST (1)					
5	Generation	\$38,247.9		\$38,251.8	
6	Distributed Generation	\$3.3		\$3.3	
7	Purch Power	\$38,543.0		\$38,543.0	
8	TOTAL	<u>\$76,794.1</u>		<u>\$76,798.1</u>	
BASE FUEL COST					
9	Generation	\$35,902.4		\$35,902.4	
10	Distributed Generation	\$1.4		\$1.4	
11	Purch Power	\$40,534.6		\$40,534.6	
12	TOTAL	<u>\$76,438.3</u>		<u>\$76,438.3</u>	
13	FUEL-BASE COST (Line 8-12)	\$355.8		\$359.8	
14	ACTUAL FOA LESS TAX	\$381.3		\$381.3	
15	Less: FOA reconciliation adj for prior year	-\$1,063.1		-\$1,063.1	
16	ADJUSTED FOA LESS TAX	<u>\$1,444.4</u>		<u>\$1,444.4</u>	
17	FOA-(FUEL-BASE) (Line 16-13)	\$1,088.6	over	\$1,084.6	over
ADJUSTMENTS:					
18	Current year FOA accrual reversal	\$769.2		\$769.2	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	\$0.0		\$0.0	
21	QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	<u>\$1,857.8</u>	over	<u>\$1,853.8</u>	over
22	First Quarter FOA reconciliation			1,153.9	over
23	FOA Reconciliation to be Returned or Collected			699.9	over

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

**Hawai'i Electric Light Company  
DEADBAND CALCULATION  
2018**

Jan 1 - Jun 2018  
YTD

**Industrial**

Industrial Efficiency Factor (per D&O), BTU/kWh*	f	15,148
Industrial Deadband Definition, +/- BTU/kWh	d	100
Industrial Portion of Recorded Sales, kWh	a	81,245,235
Industrial Consumption (Recorded), MMBTU	b	1,186,736
Industrial Efficiency Factor (Recorded), BTU/kWh	c	14,607
Lower limit of Industrial Deadband, BTU/kWh	e	15,048
Higher limit of Industrial Deadband, BTU/kWh	g	15,248
Industrial Efficiency Factor for cost-recovery, BTU/kWh	h	<b>15,048</b>

**Diesel**

Diesel Efficiency Factor (per D&O), BTU/kWh*	f	10,424
Diesel Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Diesel Portion of Recorded Sales, MWh	a	151,208,712
Diesel Consumption (Recorded), MMBTU	b	1,581,501
Diesel Efficiency Factor (Recorded), BTU/kWh	c	10,459
Lower limit of Diesel Deadband, BTU/kWh	e	10,324
Higher limit of Diesel Deadband, BTU/kWh	g	10,524
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h	<b>10,459</b>

**Biodiesel**

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	0
Lower limit of Biodiesel Deadband, BTU/kWh	e	-100
Higher limit of Biodiesel Deadband, BTU/kWh	g	100
Biodiesel Efficiency Factor for cost-recovery, BTU/kWh	h	<b>0</b>

**Hydro**

Hydro Efficiency Factor (per D&O), BTU/kWh*	f	12,621
Hydro Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Hydro Portion of Recorded Sales, MWh	a	11,132,150
Hydro Consumption (Recorded), MMBTU	b	132,589
Hydro Efficiency Factor (Recorded), BTU/kWh	c	11,910
Lower limit of Hydro Deadband, BTU/kWh	e	12,521
Higher limit of Hydro Deadband, BTU/kWh	g	12,721
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h	<b>12,521</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**  
**2018**

	<b>Without Deadband</b>	<b>With Deadband</b>
	<u>Jan 1 - Jun 30</u>	<u>Jan 1 - Jun 30</u>
<b><u>INDUSTRIAL FUEL FILING COST</u></b>		
Industrial Portion of Recorded Sales , kWh	81,245,235	81,245,235
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	1,230,703	1,222,578
\$/mmbtu	<u>\$10.1543</u>	<u>\$10.1543</u>
<b>TOTAL INDUSTRIAL \$000s TO BE RECOVERED</b>	<b>\$12,496.971</b>	<b>\$12,414.472</b>
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, kWh	151,208,712	151,208,712
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010459
Mmbtu adjusted for Sales Efficiency Factor	1,576,200	1,581,492
\$/mmbtu	<u>\$16.3373</u>	<u>\$16.3373</u>
<b>TOTAL DIESEL \$000s TO BE RECOVERED</b>	<b>\$25,750.885</b>	<b>\$25,837.347</b>
<b><u>HYDRO FUEL FILING COST</u></b>		
Hydro Portion of Recorded Sales , kWh	11,132,150	11,132,150
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012521
Mmbtu adjusted for Sales Efficiency Factor	140,499	139,386
\$/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>\$38,247.9</b>	<b>\$38,251.8</b>
<b><u>CALCULATION OF GENERATION BASE FUEL COST</u></b>		
<b>TOTAL GENERATION BASE FUEL COST, \$000s</b>	<b>\$35,902.4</b>	<b>\$35,902.4</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s YTD</b>	<b>\$38,247.9</b>	<b>\$38,251.8</b>
<b>TOTAL GENERATION BASE FUEL COST YTD</b>	<b>\$35,902.4</b>	<b>\$35,902.4</b>

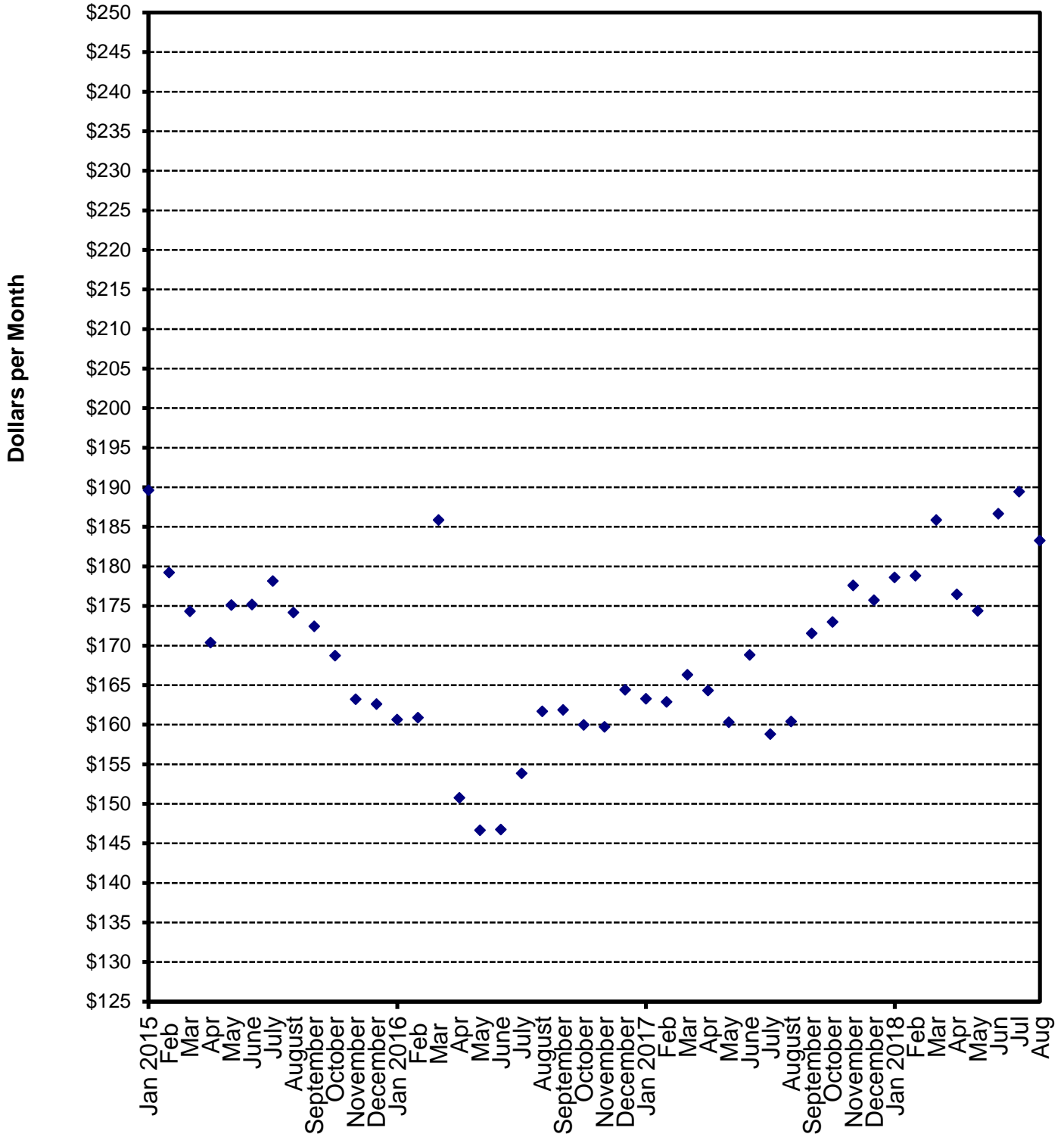
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2018 Cumulative Reconciliation Balance

<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>
November	785,400	[3]	(82,548)	867,948	(261,800)	(268,646)	534,241
December 16					(261,800)	(283,626)	250,615
January 17					(261,800)	(265,764)	(15,149)
February	1,366,400	[4]	(46,589)	1,412,989	(455,467)	(473,124)	924,716
March					(455,467)	(479,559)	445,157
April					(455,467)	(478,693)	(33,536)
May	445,100	(1)	(45,713)	490,813	(148,367)	(154,562)	302,715
June					(148,367)	(151,295)	151,420
July					(148,367)	(157,548)	(6,128)
August	500,800	[2]	(32,349)	533,149	(166,933)	(180,924)	346,097
September					(166,933)	(178,788)	167,309
October					(166,933)	(178,629)	(11,320)
November	714,200	[3]	(35,027)	749,227	(238,067)	(250,818)	487,089
December					(238,067)	(243,403)	243,686
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)		
August	699,900	[2]	(33,954)	733,854	(233,300)		

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>	FUEL FACTOR CENTS / KWH		RESIDENTIAL BILL (\$)
	<u>RESIDENTIAL &amp; 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

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
<b>04/09/12</b>	<b>FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)</b>	
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
<b>05/1/18-05/31/18</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
<b>5/1/2018</b>	<b>INTERIM RATE INCREASE 2016</b>	<b>2.5000 PERCENT ON BASE</b>
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
<b>7/1/2018- 12/31/18</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.2100 DOLLARS/MONTH</b>
<b>7/1/2018</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.4658 CENTS/KWH</b>
<b>08/01/18-08/31/18</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.6110 CENTS/KWH</b>

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



**Hawaii Electric Light Company, Inc.  
Calculations of the Average Residential Customer Bill**

	Rate		Charge (\$) at 500 Kwh			
	07/01/18	08/01/18	07/01/18	08/01/18	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel Energy Charge	¢/kwh	16.2487	16.2487	\$81.24	\$81.24	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$62.72	\$62.72	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$29.11	\$29.11	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$154.46	\$154.46	\$0.00
<b>Interim Rate Increase 2016 TY</b>	% on base	2.5000%	2.5000%	\$3.86	\$3.86	\$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	1.6811	1.6110	\$8.41	\$8.06	-\$0.35
<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	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Adjustment</b>	¢/kwh	2.8310	1.6650	\$14.16	\$8.33	-\$5.83
<b>Green Infrastructure Fee</b>	\$	1.2100	1.2100	\$1.21	\$1.21	\$0.00
<b>Avg Residential Bill at 500 kwh</b>				\$189.43	\$183.25	
				Increase (Decrease -)		-\$6.18
				% Change		-3.26%

	Rate		Charge (\$) at 600 Kwh			
	07/01/18	08/01/18	07/01/18	08/01/18	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel/Energy Charge	¢/kwh	16.2487	16.2487	\$97.49	\$97.49	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$77.27	\$77.27	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$43.66	\$43.66	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$185.26	\$185.26	\$0.00
<b>Interim Rate Increase 2016 TY</b>	% on base	2.5000%	2.5000%	\$4.63	\$4.63	\$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	1.6811	1.6110	\$10.09	\$9.67	-\$0.42
<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	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Adjustment</b>	¢/kwh	2.8310	1.6650	\$16.99	\$9.99	-\$7.00
<b>Green Infrastructure Fee</b>	\$	1.2100	1.2100	\$1.21	\$1.21	\$0.00
<b>Avg Residential Bill at 600 kwh</b>				\$226.97	\$219.55	
				Increase (Decrease -)		-\$7.42
				% Change		-3.27%