



JAY IGNACIO, P. E.
President

November 28, 2017

FILED

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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 December 2017

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for December 2017 is -1.405 cents per kilowatt-hour ("kWh"), a decrease of 0.520 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$175.02, a decrease of -\$2.58 compared to rates effective November 1, 2017. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$2.60) and the increase in the Purchase Power Adjustment Clause rate (+\$0.02).

Hawai'i Electric Light's fuel composite cost of generation decreased 111.07 cents per million BTU to 1,119.68 cents per million BTU. The distributed generation decreased 3.244 cents per kWh to 10.687 cents per kWh. The composite cost of purchased energy increased 0.129 cents per kWh to 12.473 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 December 1, 2017.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>11/01/17</u>	<u>12/01/17</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,230.75	1,119.68	(111.07)
Dispersed Generation Energy, ¢/kWh	13.931	10.687	(3.244)
Purchased Energy, ¢/kWh	12.344	12.473	0.129
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(0.885)	(1.405)	(0.520)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(0.885)	(1.405)	(0.520)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$177.60	\$175.02	(\$2.58)
600 KWH Consumption - \$/Bill	\$212.80	\$209.69	(\$3.11)

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

ENERGY COST ADJUSTMENT (ECA) FILING - December 1, 2017 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	December 1, 2017
2	Supercedes Factors of	November 1, 2017

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		882.21			
5	Puna Industrial		899.16			
6	Keahole Diesel		1,527.93			
6a	Keahole ULSD		1,428.25			
7	Waimea ULSD Diesel		1,419.50			
8	Hilo Diesel		1,503.56			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,400.38			
9	Puna Diesel		1,502.93			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		54.910			
14	Puna Industrial		7.443			
15	Keahole Diesel		36.206			
15a	Keahole ULSD		0.004			
16	Waimea ULSD Diesel		0.003			
17	Hilo Diesel		0.000			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.000			
18	Puna Diesel		1.000			
19	Wind		0.000			
20	Hydro		0.434			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,119.68			
22	% Input to System kWh Mix		41.615			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
		Eff Factor	Percent of	Weighted		
	Fuel Type	mmbtu/kwh	Centrl Stn +	Eff Factor		
			Wind/Hydro			
23	Industrial	0.015148	51.242	0.007762		
24	Diesel	0.010424	43.824	0.004568		
25	Other	0.012621	4.934	0.000623		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0129530		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			6.03551		
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)			(1.08244)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(1.18798)		
				DG ENERGY COMPONENT		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	10.687
				36	% Input to System kWh Mix	0.003
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.00032
				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)	(0.00910)
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	(0.01066)
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(1.18798)
				46	DG (line 44)	(0.01066)
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(1.19864)

¹ Hilo ULSD same location as Kanoelehua ULSD

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

ENERGY COST ADJUSTMENT (ECA) FILING - December 1, 2017 (Page 2 of 2)

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		14.381
49	PGV	On Peak	11.966
50	PGV	Off Peak	12.136
51	PGV - Add'l 5 MW	On Peak	12.670
52	PGV - Add'l 5 MW	Off Peak	12.670
53	PGV - Add'l 8 MW	On Peak	6.440
54	PGV - Add'l 8 MW	Off Peak	6.440
55	Wailuku Hydro	On Peak	11.966
56	Wailuku Hydro	Off Peak	12.136
57	Hawi Renewable Dev.	On Peak	11.966
58	Hawi Renewable Dev.	Off Peak	12.136
59	Tawhiri (Pakini Nui)	On Peak	12.540
60	Tawhiri (Pakini Nui)	Off Peak	11.920
61			
62	Small Hydro (>100 KW)	On Peak	11.966
63	Small Hydro (>100 KW)	Off Peak	12.136
64	Sch Q Hydro (<100 KW)		11.710
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		24.393
67	PGV	On Peak	20.265
68	PGV	Off Peak	12.451
69	PGV - Addt'l	On Peak	4.053
70	PGV - Addt'l	Off Peak	2.895
71	PGV - Add'l 8 MW	On Peak	2.555
72	PGV - Add'l 8 MW	Off Peak	5.178
73	Wailuku Hydro	On Peak	0.591
74	Wailuku Hydro	Off Peak	0.334
75	Hawi Renewable Dev.	On Peak	3.837
76	Hawi Renewable Dev.	Off Peak	2.071
77	Tawhiri (Pakini Nui)	On Peak	11.483
78	Tawhiri (Pakini Nui)	Off Peak	7.951
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)		0.172
83	FIT		1.771
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		12.473
85	% Input to System kWh Mix		58.382
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		7.28199
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))		0.08685
91	Loss Factor		1.067
92	Revenue Tax *		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		0.10170

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))	(1.09694)
95	Not Used	0.000
96	Not Used	0.000
97	ECA Reconciliation Adjustment	(0.308)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))	(1.405)

Hawaii Electric Light Company, Inc.
FUEL OIL INVENTORY PRICES FOR December 1, 2017

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	55.5793	55.5793
Land Transportation Cost - \$/BBL	--	1.0678
Industrial Costs For Filing - \$/BBL	55.5793	56.6471
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	882.21	899.16

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	86.8762	86.8762	86.8762
Land Transportation Cost - \$/BBL	2.6605	1.1957	1.2321
Diesel Costs For Filing - \$/BBL	89.5367	88.0719	88.1084
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,527.93	1,502.93	1,503.56

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	78.9989	78.9989	78.9989	78.9989
Land Transportation Cost - \$/BBL	2.8397	2.3387	1.2428	-
ULSD Costs For Filing - \$/BBL	81.8386	81.3376	80.2417	78.9989
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,428.25	1,419.50	1,400.38	1,378.69

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	4.0583
\$/BBI Inv Cost:	78.9989
Fuel \$ (Prod Sim Consumption x Unit Cost)	320.60
Net kWh (from Prod Sim)	3,000
cents/kWh:	10.687

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 10/31/2017	0	0.00	42,478	2,412,677.62			
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	(37,751)	(2,175,439.18)			
Actual	0	0.00	32,237	1,828,161.46			
Consumed: Estimate	0	0.00	35,537	1,802,046.31			
Actual	0	0.00	(35,564)	(1,803,415.46)			
Balance Per G/L 10/31/2017	<u>0</u>	<u>0.00</u>	<u>36,937</u>	<u>2,064,030.75</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	39,210	2,207,241.11			
Consumed	<u>0</u>	<u>0.00</u>	<u>(34,704)</u>	<u>(1,970,298.78)</u>	106.5901	0.0000	106.5901
Balance @ 11/30/2017	0	0.00	41,443	2,300,973.08			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 11/30/2017	<u>0</u>	<u>0.00</u>	<u>41,443</u>	<u>2,300,973.08</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,300,973.08)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,303,372.87			
Total @ 12/01/2017 Avg Price	<u>0</u>	<u>0.00</u>	<u>41,443</u>	<u>2,303,372.87</u>			

Weighted Avg Cost/BBL by Location #DIV/0! 55.5214

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 55.5793

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 10/31/2017	6,550	357,827.44	6,244.47			
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	(2,161)	(131,419.53)	(2,583.99)			
Actual	2,114	129,228.75	2,644.98			
Consumed: Estimate	2,629	133,314.00	2,146.82			
Actual	(2,725)	(138,182.07)	(2,225.22)			
Balance Per G/L 10/31/2017	<u>6,407</u>	<u>350,768.59</u>	<u>6,227.06</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	2,836	164,195	3,391.12			
Consumed	(2,198)	<u>(124,790.13)</u>	(2,095.57)	56.7744	0.9534	57.7278
Balance @ 11/30/2017	<u>7,045</u>	<u>390,173.02</u>	<u>7,522.61</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>7,045</u>	<u>390,173.02</u>	<u>7,522.61</u>		<u>1.0678</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(390,173.02)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	391,556.16	XXXXXXXXXXXX			
Total @ 12/01/2017 Avg Price	<u>7,045</u>	<u>391,556.16</u>	<u>7,522.61</u>			

Weighted Avg Cost/BBL by Location

55.3830

1.0678

Weighted Avg Cost/BBL @ Avg Cost

55.5793

1.0678

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 10/31/2017	52,345.8	2,198,524.0	5,026,858.3	147,084.6			
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	(44,057.4)	(1,850,412.0)	(4,366,392.5)	(125,272.9)			
Actual	44,760.7	1,879,951.0	4,250,590.9	118,161.87			
Consumed: Estimate	42,893.3	1,801,520.0	3,494,086.9	120,033.48			
Actual	(41,073.1)	(1,725,072.0)	(3,345,814.4)	(114,939.8)	81.4599		
Balance Per G/L 10/31/2017	54,869.3	2,304,511	5,059,329.23	145,067.20	92.2069		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	23,467.9	985,651.0	2,041,754.0	66,728.6	87.0021		
Consumed	(22,610.7)	(949,648.0)	(2,166,411.6)	(63,533.71)	95.8137	2.8099	98.6236
Balance @ 11/30/2017	55,726.5	2,340,514	4,934,671.57	148,262.06	88.5516		
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	55,726.5	2,340,514	4,934,671.57	148,262.06	88.5516		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(4,934,671.6)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	4,841,309.6	xxxxxxxxxxxxxxxx			
Total @ 12/01/2017 Avg Price	55,726.5	2,340,514	4,841,309.57	148,262.06	86.8762		

Weighted Avg Cost/BBL by Location

88.5516 2.6605

Weighted Avg Cost/BBL @ Avg Cost

86.8762 2.6605

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 10/31/2017	3,569.5	149,920.0	314,693.2	4,453.2			
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	(956.5)	(40,171.0)	(101,657.0)	(1,060.5)			
Actual	1,423.2	59,774.0	146,213.6	1,570.7			
Consumed: Estimate	1,239.1	52,044.0	100,940.5	1,548.6			
Actual	(1,309.4)	(54,996.0)	(106,665.9)	(1,636.5)			
Balance Per G/L 10/31/2017	3,966.0	166,571	353,524.33	4,875.51			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	1,191.5	50,042.0	112,813.8	1,321.1	94.6841		
Consumed	(573.0)	(24,068)	(54,905.81)	(714.93)	95.8137	1.2476	97.0613
Balance @ 11/30/2017	4,584.4	192,545	411,432.34	5,481.68	89.7461		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 11/30/2017	4,584.4	192,545	411,432.34	5,481.68	89.7461		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(411,432.34)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	398,275.74	XXXXXXXXXXXXXXXXXXXX			
Total @ 12/01/2017 Avg Price	4,584.4	192,545	398,275.74	5,481.68	86.8762		

Weighted Avg Cost/BBL by Location

89.7461 1.1957

Weighted Avg Cost/BBL @ Avg Cost

86.8762 1.1957

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 10/31/2017	1524.2	64,017	117,855	1,878			
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	2.3	96.0	0.0	1.8			
Actual	-0.2	-8.0	0.0	0.0			
Consumed: Estimate	49.0	2058.0	3991.5	60.2			
Actual	-45.3	-1903.0	-3690.9	-55.7			
Balance Per G/L 10/31/2017	1530.0	64,260	118,155.66	1,884.50	77.2259		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	-2.7	-114.0	0.0	-2.7	#DIV/0!		
Consumed	-9.8	-410.0	-935.3	-12.0	95.8137	1.2323	97.0460
Balance @ 11/30/2017	1,517.5	63,736	117,220.34	1,869.81	77.2445		
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	1,517.5	63,736	117,220.34	1,869.81	77.2445		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -117,220.34	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 131,836.73	XXXXXXXXXXXX			
Total @ 12/01/2017 Avg Price	1,517.5	63,736	131,836.73	1,869.81	86.8762		

Weighted Avg Cost/BBL by Location

77.2445 1.2321

Weighted Avg Cost/BBL @ Avg Cost

86.8762 1.2321

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 10/31/2017	2,263.1	95,049	177,191.77	6,467.15			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(378.5)	(15,898)	(34,599.96)	(1,076.30)			
Actual	188.5	7,918	17,232.51	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate		(111)	0.00	(7.51)			
Actual		102	0.00	503.89			
Consumed: Estimate	138.8	5,828	10,556.52	396.76			
Actual	(157.0)	(6,596)	(11,947.64)	(449.05)	76.0765		
Balance Per G/L 10/31/2017	2,054.6	86,292	158,433.20	5,834.94	77.1125		
Purchases	189.1	7,941	16,180.29	537.61	0.0000		
Estimated Purchases	190.0	7,980	16,758.00	540.25			
Transfer in	5.1	216	0.00	14.62	0.00		
Consumed	(109.5)	(4,598)	(8,667.53)	(312.85)	79.1727	2.8577	82.0304
Balance @ 11/30/2017	2,329.3	97,831	182,703.96	6,614.56	78.4370		
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	2,329.3	97,831	182,703.96	6,614.56	78.4370		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(182,703.96)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	184,012.87	XXXXXXXXXXXX			
Total @ 12/01/2017 Avg Price	2,329.3	97,831	184,012.87	6,614.56	78.9989		

Weighted Avg Cost/BBL by Location

78.4370 2.8397

Weighted Avg Cost/BBL @ Avg Cost

78.9989 2.8397

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 10/31/2017	1,782.5	74,865.0	146,266.0	4,201.88			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,905)	(38,672.07)	(897.04)			
Actual		7,925.0	19,269.2	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	2.7	112	0.00	0.00			
Actual	0.5	20	0.00	420.16			
Consumed: Estimate	156.7	6,580	11,918.65	368.39			
Actual	(158.5)	(6,659)	(12,061.75)	(372.81)			
Balance Per G/L 10/31/2017	1,593.8	66,938	126,719.97	3,720.58	79.5100		
ULSD Purchases	0.0	0	(520.72)	0.00	#DIV/0!		
Estimated Purchases	190.0	7,980	16,758.00	450.07			
Transfer in	XXXXXXXXXXXX	(52)	0.00	0.00	#DIV/0!		
Consumed	(98.6)	(4,140)	(7,804.17)	(232.36)	79.1727	2.3573	81.5300
Balance @ 11/30/2017	1,684.0	70,726	135,153.08	3,938.29	80.2594		
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	1,684.0	70,726	135,153.08	3,938.29	80.2594		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(135,153.08)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	133,030.37	XXXXXXXXXXXX			
Total @ 12/01/2017 Avg Price	1,684.0	70,726	133,030.37	3,938.29	78.9989		

Weighted Avg Cost/BBL by Location

80.2594 2.3387

Weighted Avg Cost/BBL @ Avg Cost

78.9989 2.3387

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 10/31/2017	1,453.0	61,025.0	110,931.8	1,757.7		
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		267	0.00	6.22		
Actual		(343)	0.00	0.00		
Consumed: Estimate	36.5	1,535	2,780.42	92.29		
Actual	(30.8)	(1,295)	(2,345.69)	(37.57)		
Balance Per G/L 10/31/2017	1,456.9	61,189	111,366.50	1,818.61		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	(13)	(534)	0.00	(12.44)		
Consumed	(12.2)	(513)	(967.04)	(26.58)	79.1727	1.2097
Balance @ 11/30/2017	1,432.0	60,142	110,399.46	1,779.58		
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	1,432.0	60,142	110,399.46	1,779.58		
Reverse Fuel Balance	x	x	(110,399.46)	x		
Fuel Balance @ Avg Price	x	x	113,122.65	x		
Total @ 12/01/2017 Avg Price	1,432.0	60,142	113,122.65	1,779.58		

Weighted Avg Cost/BBL by Location

77.0972 1.2428

Weighted Avg Cost/BBL @ Avg Cost

78.9989 1.2428

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2017

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 10/31/2017	89.1	3,741	7,997.38	
Less: Est'd Inven Addition	0.0	XXXXXXXXXXXXXXXXXXXX		
Purchases: Estimate	0.0	0	(442.06)	
Actual	18.8	790	2,161.39	
Consumed: Estimate	11.9	501	907.48	
Actual	(10.0)	(419)	14.47	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Balance Per G/L 10/31/2017	109.83	4,613	10,638.66	96.8619
Purchases	0.0	0	(51.95)	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX	
Consumed	(3.6)	(150)	(282.76)	79.1727
Balance @ 11/30/2017	106.3	4,463	10,303.95	96.9675
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 11/30/2017	106.3	4,463	10,303.95	
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(10,303.95)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	8,394.57	xxxx
Total @ 12/01/2017 Avg Price	106.3	4,463	8,394.57	78.9989

HAWAII ELECTRIC LIGHT COMPANY, INC.
CONTRACT PRICES EFFECTIVE November 1, 2017

TYPE OF OIL BURNED

INDUSTRIAL *	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	51.47	3.2424	51.47	3.2424
Ocean Transportation	52.74	3.2020	50.83	3.2020
Storage	28.69	1.9687	31.25	1.9687
Wharfage	5.60	0.3400	5.40	0.3400
Fees ²	1.13	0.0712	1.13	0.0900
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
DIESEL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	86.48	5.0674	86.48	5.0674
Ocean Transportation	54.64	1.9761	54.64	3.2020
Storage	26.13	1.5312	26.13	1.5312
Wharfage	5.80	0.3400	5.80	0.3400
Fees ²	1.67	0.0975	1.67	0.0975
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	86.48	5.0674	86.48	5.0674
Ocean Transportation	54.64	3.2020	54.64	3.2020
Storage	26.13	1.5312	26.13	1.5312
Wharfage	5.80	0.3400	5.80	0.3400
Fees ²	1.67	0.0975	1.67	0.0975
	<u>ULSD</u>			
ULSD **	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax ¹	26.38	1.9439		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees ²	1.67	0.0975		

¹ Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

² 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 December 1, 2017

		December 1, 2017 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	11.966	6.560
PGV (22 MW)	- off peak	12.136	5.430
WAILUKU HYDRO	- on peak	11.966	7.240
	.	12.136	5.970
Other: (<100 KW)	Sch Q Rate	11.710	
		December 1, 2017 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		14.381	
PGV Addtl 5 MW	- on peak	12.6700	0.0000
	- off peak	12.6700	0.0000
PGV Addtl 8 MW	- on peak	6.4400	0.0000
	- off peak	6.4400	0.0000

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
December 1, 2017

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$714,200)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$238,067)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$261,282)
5	Estimated MWh Sales (December 1, 2017)	84,720 mwh
6	Adjustment (Line 4 / Line 5)	(0.308) ¢/kwh

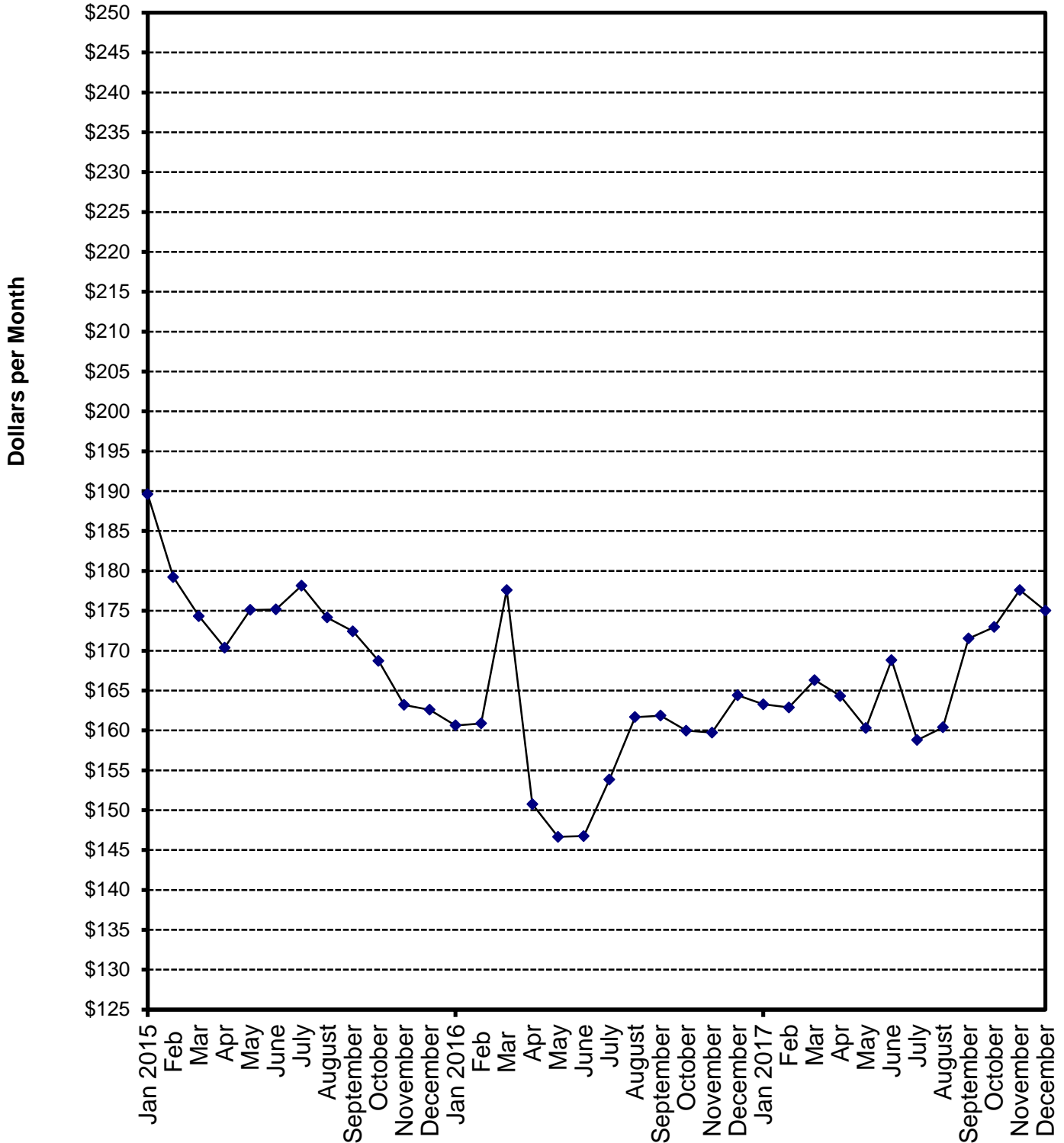
HAWAII ELECTRIC LIGHT COMPANY, INC.
2017 Cumulative Reconciliation Balance

<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	791,200	[3]	44,375	746,825	(263,733)	(262,906)	565,708
December 15					(263,733)	(256,311)	309,397
January 16					(263,733)	(264,541)	44,856
February	(282,600)	[4]	10,260	(292,860)	94,200	95,382	(152,622)
March					94,200	96,004	(56,618)
April					94,200	97,345	40,727
May	2,320,900	[1]	2,178	2,318,722	(773,633)	(790,776)	1,568,673
June					(773,633)	(817,839)	750,834
July					(773,633)	(821,946)	(71,112)
August	645,200	[2]	(58,204)	703,404	(215,067)	(232,600)	399,692
September					(215,067)	(231,769)	167,923
October					(215,067)	(232,984)	(65,061)
November	785,400	[3]	(82,548)	867,948	(261,800)	(268,646)	534,241
December					(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)		
December					(238,067)		

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 & COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 500 KWH @ 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

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
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	Interim Ra te 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

**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		
	11/01/17	12/01/17	11/01/17	12/01/17	Difference
Base Rates					
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
Total Base Charges			\$154.46	\$154.46	\$0.00
Interim Rate Increase 2016 TY	% on base 5.8800%	5.8800%	\$9.08	\$9.08	\$0.00
RBA Rate Adjustment	¢/kwh 0.6313	0.6313	\$3.16	\$3.16	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.4067	2.4090	\$12.03	\$12.05	\$0.02
PBF Surcharge	¢/kwh 0.4244	0.4244	\$2.12	\$2.12	\$0.00
DSM Adjustment	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Adjustment	¢/kwh (0.8850)	(1.4050)	-\$4.43	-\$7.03	-\$2.60
Green Infrastructure Fee	\$ 1.1800	1.1800	\$1.18	\$1.18	\$0.00
Avg Residential Bill at 500 kwh			\$177.60	\$175.02	

Increase (Decrease -)	-\$2.58
% Change	-1.45%

	Rate		Charge (\$) at 600 Kwh		
	11/01/17	12/01/17	11/01/17	12/01/17	Difference
Base Rates					
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
Total Base Charges			\$185.26	\$185.26	\$0.00
Interim Rate Increase 2016 TY	% on base 5.8800%	5.8800%	\$10.89	\$10.89	\$0.00
RBA Rate Adjustment	¢/kwh 0.6313	0.6313	\$3.79	\$3.79	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.4067	2.4090	\$14.44	\$14.45	\$0.01
PBF Surcharge	¢/kwh 0.4244	0.4244	\$2.55	\$2.55	\$0.00
DSM Adjustment	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Adjustment	¢/kwh (0.8850)	(1.4050)	-\$5.31	-\$8.43	-\$3.12
Green Infrastructure Fee	\$ 1.1800	1.1800	\$1.18	\$1.18	\$0.00
Avg Residential Bill at 600 kwh			\$212.80	\$209.69	

Increase (Decrease -)	-\$3.11
% Change	-1.46%