



JAY IGNACIO, P. E.
President

September 26, 2018

FILED

2018 SEP 26 P 3:43

PUBLIC UTILITIES
COMMISSION

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

Dear Commissioners:

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

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for October 2018 is 8.359 cents per kilowatt-hour ("kWh"), an increase of 6.33 cents per kWh from last month. Base Energy Cost factors are reset to the 2016 rate case approved levels effective October 1, 2018 in Docket No. 2015-0170.

Hawai'i Electric Light's fuel composite cost of generation increased 55.83 cents per million BTU to 1,504.96 cents per million BTU. The distributed generation increased 0.61 cents per kWh to 16.393 cents per kWh. The composite cost of purchased energy increased 0.14 cents per kWh to 14.903 cents per kWh.

A residential customer consuming 500 kWh of electricity will be paying \$194.21, an increase of \$9.23 compared to rates effective September 1, 2018. The increase in the residential typical bill is comprised of the increase in the Energy Cost Adjustment Factor (\$31.66), and an increase in the Purchased Power Adjustment Clause (\$1.32), partially offset by the termination of the 2016 Interim Rate Increase (-\$3.86), and the Implementation of the 2016 Final Rates effective October 1, 2018 (-\$19.89).

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 October 1, 2018.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>09/01/18</u>	<u>10/01/18</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,449.13	1,504.96	55.83
Dispersed Generation Energy, ¢/kWh	15.780	16.393	0.61
Purchased Energy, ¢/kWh	14.763	14.903	0.14
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	2.027	8.359	6.33
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	2.027	8.359	6.33
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$184.98	\$194.21	\$9.23
600 KWH Consumption - \$/Bill	\$221.62	\$232.50	\$10.88

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

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

<u>Line</u>		
1	Effective Date	October 1, 2018
2	Supercedes Factors of	September 1, 2018

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT					
FUEL PRICES, ¢/mmbtu					
3					
4	Hill Industrial		1,208.97		
5	Puna Industrial		1,228.13		
6	Keahole Diesel		1,818.52		
6a	Keahole ULSD		1,659.50		
7	Waimea ULSD Diesel		1,651.32		
8	Hilo Diesel		1,784.78		
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,635.75		
9	Puna Diesel		1,790.34		
10	Wind		0.00		
11	Hydro		0.00		
BTU MIX, %					
12					
13	Hill Industrial		38.189		
14	Puna Industrial		2.515		
15	Keahole Diesel		49.265		
15a	Keahole ULSD		1.373		
16	Waimea ULSD Diesel		0.505		
17	Hilo Diesel		0.105		
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.091		
18	Puna Diesel		4.580		
19	Wind		0.000		
20	Hydro		3.377		
			100.000		
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,504.96		
22	% Input to System kWh Mix		51.903		
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
			Percent of		
		Eff Factor	Centrl Stn +	Weighted	
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Wind/Hydro</u>	<u>Eff Factor</u>	
23	Industrial	0.014437	40.704	0.005876	
24	Diesel	0.010515	55.919	0.005880	
25	Other	0.012351	3.377	0.000417	
	(Lines 23, 2				
26	Weighted Efficiency Factor, mmbtu/kWh				
	[Lines 23(D) + 24(D) + 25(D)]			0.0121730	
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh				
	(Lines (21 x 22 x 26))			9.50857	
28	BASE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/mmbtu			661.02	
29	Base % Input to Sys kWh Mix			53.67	
30	Efficiency Factor, mmbtu/kwh			0.012451	
31	WEIGHTED BASE CENTRAL STATION + WIND/HYDRO GENERATION COST ¢/kWh				
	(Lines (28 x 29 x 30))			4.41723	
32	COST LESS BASE (Line 27 - 31)			5.09134	
33	Revenue Tax Req Multiplier			1.0975	
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			5.58775	
				DG ENERGY COMPONENT	
	35	COMPOSITE COST OF DG ENERGY, ¢/kWh		16.393	
	36	% Input to System kWh Mix		0.955	
	37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)		0.15655	
	38	BASE DG ENERGY COMPOSITE COS		13.932	
	39	Base % Input to System kWh Mix		0.01	
	40	WEIGHTED BASE DG ENERGY COST, ¢/kWh (Line 38 x 39)		0.00139	
	41	Cost Less Base (Line 37 - 40)		0.15516	
	42	Loss Factor		1.072	
	43	Revenue Tax Req Multiplier		1.0975	
	44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)		0.18255	
				SUMMARY OF	
				TOTAL GENERATION FACTOR, ¢/kWh	
	45	Cntrl Stn+Wind/Hydro (line 34)		5.58775	
	46	DG (line 44)		0.18255	
	47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)		5.77030	

¹ Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		15.724
49	PGV	On Peak	16.233
50	PGV	Off Peak	15.872
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	16.233
56	Wailuku Hydro	Off Peak	15.872
57	Hawi Renewable Dev.	On Peak	16.233
58	Hawi Renewable Dev.	Off Peak	15.872
59	Tawhiri (Pakini Nui)	On Peak	11.510
60	Tawhiri (Pakini Nui)	Off Peak	11.550
61			
62	Small Hydro (>100 KW)	On Peak	16.233
63	Small Hydro (>100 KW)	Off Peak	15.872
64	Sch Q Hydro (<100 KW)		15.670
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		63.669
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	3.901
74	Wailuku Hydro	Off Peak	2.671
75	Hawi Renewable Dev.	On Peak	4.738
76	Hawi Renewable Dev.	Off Peak	1.892
77	Tawhiri (Pakini Nui)	On Peak	13.469
78	Tawhiri (Pakini Nui)	Off Peak	8.696
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)		0.237
83	FIT		0.727
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		14.903
85	% Input to System kWh Mix		47.142
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		7.02557
87	BASE PURCHASED ENERGY COMPOSITE COST, ¢/kWh		9.895
88	Base % Input to Sys kWh Mix		46.32
89	WEIGHTED BASE PURCHASED ENERGY COST, ¢/kWh (Lines (87 x 88))		4.58336
90	COST LESS BASE (Lines (86 - 89))		2.44221
91	Loss Factor		1.072
92	Revenue Tax *		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		2.87331

Line	SYSTEM COMPOSITE		
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))		8.64361
95	Not Used		0.000
96	Not Used		0.000
97	ECA Reconciliation Adjustment		(0.285)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))		8.359

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	76.1649	76.1649
Land Transportation Cost - \$/BBL	--	1.2072
Industrial Costs For Filing - \$/BBL	76.1649	77.3721
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	1,208.97	1,228.13

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	103.7374	103.7374	103.7374
Land Transportation Cost - \$/BBL	2.8278	1.1766	0.8507
Diesel Costs For Filing - \$/BBL	106.5652	104.9141	104.5881
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,818.52	1,790.34	1,784.78

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	92.2783	92.2783	92.2783	92.2783
Land Transportation Cost - \$/BBL	2.8110	2.3422	1.4502	-
ULSD Costs For Filing - \$/BBL	95.0893	94.6205	93.7285	92.2783
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,659.50	1,651.32	1,635.75	1,610.44

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	1208.0011
\$/BBI Inv Cost:	92.2783
Fuel \$ (Prod Sim Consumption x Unit Cost)	111,472.32
Net kWh (from Prod Sim)	680,000
cents/kWh:	16.393

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 08/31/2018	0	0.00	38,351	2,952,590.39			
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	(25,386)	(1,919,515.96)			
Actual	0	0.00	24,179	1,845,338.77			
Consumed: Estimate	0	0.00	21,894	1,658,008.22			
Actual	0	0.00	(20,331)	(1,539,643.97)			
Balance Per G/L 08/31/2018	<u>0</u>	<u>0.00</u>	<u>38,707</u>	<u>2,996,777.45</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	14,782	1,094,712.21			
Consumed	<u>0</u>	<u>0.00</u>	<u>(18,868)</u>	<u>(1,444,564.40)</u>	106.5901	0.0000	106.5901
Balance @ 09/30/2018	0	0.00	34,621	2,646,925.26			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 09/30/2018	<u>0</u>	<u>0.00</u>	<u>34,621</u>	<u>2,646,925.26</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,646,925.26)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,636,905.61			
Total @ 10/01/2018 Avg Price	<u>0</u>	<u>0.00</u>	<u>34,621</u>	<u>2,636,905.61</u>			

Weighted Avg Cost/BBL by Location #DIV/0! 76.4543
 Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 76.1649

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 08/31/2018	6,467	511,916.11	8,087.72			
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	(6,725)	(523,310.76)	(8,041.35)			
Actual	6,616	526,527.70	8,272.13			
Consumed: Estimate	5,797	439,000.35	6,856.30			
Actual	(5,840)	(442,256.69)	(6,907.16)			
Balance Per G/L 08/31/2018	<u>6,315</u>	<u>511,876.71</u>	<u>8,267.64</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	10,078	774,975	12,050.67			
Consumed	(12,175)	<u>(932,137.56)</u>	(15,226.23)	76.5616	1.2506	77.8122
Balance @ 09/30/2018	<u>4,218</u>	<u>354,714.60</u>	<u>5,092.08</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>4,218</u>	<u>354,714.60</u>	<u>5,092.08</u>		<u>1.2072</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(354,714.60)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	321,263.62	XXXXXXXXXXXX			
Total @ 10/01/2018 Avg Price	<u>4,218</u>	<u>321,263.62</u>	<u>5,092.08</u>			
Weighted Avg Cost/BBL by Location		84.0954	1.2072			
Weighted Avg Cost/BBL @ Avg Cost		76.1649	1.2072			

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

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 08/31/2018	42,088.8	1,767,729.0	4,090,935.4	119,002.6			
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		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(51,725.9)	(2,172,486.0)	(4,993,096.9)	(147,077.3)			
Actual	49,161.2	2,064,772.0	4,892,302.1	139,014.23			
Consumed: Estimate	58,207.9	2,444,731.0	5,533,986.4	163,767.87			
Actual	(57,356.0)	(2,408,951.0)	(5,391,502.5)	(161,392.4)	94.0007		
Balance Per G/L 08/31/2018	40,376.1	1,695,795	4,132,624.53	113,315.02	102.3533		
Purchases	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	53,982.1	2,267,247.0	5,388,016.8	153,492.6	99.8112		
Consumed	(48,079.0)	(2,019,319.0)	(4,681,684.3)	(135,939.47)	97.3748	2.8274	100.2022
Balance @ 09/30/2018	46,279.1	1,943,723	4,838,957.02	130,868.17	104.5603		
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	46,279.1	1,943,723	4,838,957.02	130,868.17	104.5603		
Reverse Fuel Balance	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	(4,838,957.0)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	4,800,876.2	XXXXXXXXXXXXXXXXXX			
Total @ 10/01/2018 Avg Price	46,279.1	1,943,723	4,800,876.20	130,868.17	103.7374		

Weighted Avg Cost/BBL by Location

104.5603

2.8278

Weighted Avg Cost/BBL @ Avg Cost

103.7374

2.8278

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 08/31/2018	3,502.5	147,103.0	343,309.5	3,821.5			
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	(5,551.9)	(233,181.0)	(536,934.8)	(6,156.0)			
Actual	7,027.7	295,164.0	727,807.4	7,927.4			
Consumed: Estimate	6,277.8	263,669.0	596,851.2	7,385.9			
Actual	(7,377.1)	(309,839.0)	(734,009.8)	(8,679.0)			
Balance Per G/L 08/31/2018	3,879.0	162,916	397,023.61	4,299.83			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	7,156.5	300,574.0	702,896.4	7,935.2	98.2176		
Consumed	(8,765.6)	(368,154)	(853,545.58)	(9,564.12)	97.3748	1.0911	98.4659
Balance @ 09/30/2018	2,269.9	95,336	246,374.44	2,670.86	108.5396		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 09/30/2018	2,269.9	95,336	246,374.44	2,670.86	108.5396		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	(246,374.44)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	235,474.05	XXXXXXXXXXXX			
Total @ 10/01/2018 Avg Price	2,269.9	95,336	235,474.05	2,670.86	103.7374		

Weighted Avg Cost/BBL by Location
Weighted Avg Cost/BBL @ Avg Cost

108.5396 1.1766
103.7374 1.1766

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 08/31/2018	1740.4	73,096	167,357	1,949			
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	-566.4	-23790.0	-55379.4	-555.0			
Actual	931.4	39119.0	95901.0	921.9			
Consumed: Estimate	92.5	3885.0	8794.2	113.9			
Actual	-227.1	-9538.0	-14958.9	-279.6			
Balance Per G/L 08/31/2018	1970.8	82,772	201,714.00	2,150.47	102.3533		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	192.5	8084.0	18649.6	0.0	96.8932		
Consumed	-1151.8	-48374.0	-112152.6	-1290.0	97.3748	1.1200	98.4948
Balance @ 09/30/2018	1,011.5	42,482	108,211.07	860.49	106.9833		
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	1,011.5	42,482	108,211.07	860.49	106.9833		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX	-108,211.07	XXXXXXXXXXXX		
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX	104,927.93	XXXXXXXXXXXX		
Total @ 10/01/2018 Avg Price	1,011.5	42,482	104,927.93	860.49	103.7374		

Weighted Avg Cost/BBL by Location

106.9833 0.8507

Weighted Avg Cost/BBL @ Avg Cost

103.7374 0.8507

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 08/31/2018	1,977.5	83,056	172,433.92	5,527.10			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	0.0	0	0.00	0.00			
Actual	0.0	0	0.00	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate		64	0.00	4.33			
Actual		(47)	0.00	0.00			
Consumed: Estimate	148.6	6,242	13,094.19	412.67			
Actual	(164.7)	(6,919)	(14,514.37)	(438.30)	88.1057		
Balance Per G/L 08/31/2018	1,961.8	82,396	171,013.74	5,505.80	87.1714		
Purchases	187.8	7,887	19,081.89	533.95	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(2.1)	(89)	0.00	(6.03)	0.00		
Consumed	(172.1)	(7,227)	(15,289.99)	(480.93)	88.8584	2.7950	91.6534
Balance @ 09/30/2018	1,975.4	82,967	174,805.64	5,552.79	88.4910		
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	1,975.4	82,967	174,805.64	5,552.79	88.4910		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(174,805.64)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	182,287.04	XXXXXXXXXXXX			
Total @ 10/01/2018 Avg Price	1,975.4	82,967	182,287.04	5,552.79	92.2783		

Weighted Avg Cost/BBL by Location

88.4910 2.8110

Weighted Avg Cost/BBL @ Avg Cost

92.2783 2.8110

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 08/31/2018	1,515.5	63,651.0	132,211.8	3,543.07			
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	2.3	96	0.00	0.00			
Actual	(4.4)	(184)	0.00	0.00			
Consumed: Estimate	149.7	6,289	13,192.78	349.99			
Actual	(123.0)	(5,168)	(10,841.20)	(287.61)			
Balance Per G/L 08/31/2018	1,540.1	64,684	134,563.41	3,605.45	87.3734		
ULSD Purchases	188.6	7,922	19,166.57	446.80	101.6152		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	XXXXXXXXXXXX	73	0.00	0.00	#DIV/0!		
Consumed	(182.8)	(7,677)	(16,242.05)	(427.33)	88.8584	2.3379	91.1963
Balance @ 09/30/2018	1,547.7	65,002	137,487.93	3,624.92	88.8356		
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	1,547.7	65,002	137,487.93	3,624.92	88.8356		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(137,487.93)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	142,816.09	XXXXXXXXXXXX			
Total @ 10/01/2018 Avg Price	1,547.7	65,002	142,816.09	3,624.92	92.2783		

Weighted Avg Cost/BBL by Location

88.8356 2.3422

Weighted Avg Cost/BBL @ Avg Cost

92.2783 2.3422

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 08/31/2018	1,367.4	57,430.0	127,176.5	1,723.5		
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	102.2	4,292	967.04	26.58		
Actual	(107.9)	(4,530)	(9,502.83)	54.40		
Balance Per G/L 08/31/2018	1,361.7	57,192	118,640.75	1,804.44		
ULSD Purchases	188	7,902	19,118.18	184.12	2.42	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(196.9)	(8,271)	(967.04)	(26.58)	88.85839487	1.2604
Balance @ 09/30/2018	1,352.9	56,823	136,791.89	1,961.97		
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	1,352.9	56,823	136,791.89	1,961.97		
Reverse Fuel Balance	x	x	(136,791.89)	x		
Fuel Balance @ Avg Price	x	x	124,845.98	x		
Total @ 10/01/2018 Avg Price	1,352.9	56,823	124,845.98	1,961.97		
Weighted Avg Cost/BBL by Location			101.1080	1.4502		
Weighted Avg Cost/BBL @ Avg Cost			92.2783	1.4502		

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 08/31/2018	88.7	3,725	7,946.37	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	(18.9)	(794)	(1,887.70)	
Actual	18.9	794	1,959.31	
Consumed: Estimate	29.2	1,226	2,571.85	
Actual	(21.7)	(912)	(982.69)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 08/31/2018	96.17	4,039	9,607.14	99.9009
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(38.2)	(1,604)	(3,393.54)	88.8584
Balance @ 09/30/2018	58.0	2,435	6,213.60	107.1750
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 09/30/2018	58.0	2,435	6,213.60	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(6,213.60)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	5,349.95	xxxx
Total @ 10/01/2018 Avg Price	58.0	2,435	5,349.95	92.2783

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

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	64.57	4.0682	64.57	4.0682
Ocean Transportation	40.43	2.4548	38.97	2.4548
Storage	29.89	2.0521	32.57	2.0521
Wharfage	6.43	0.3900	6.19	0.3900
Fees ²	2.26	0.1425	2.26	0.1425
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
DIESEL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	97.01	5.6841	97.01	5.6841
Ocean Transportation	41.89	2.4548	41.89	2.4548
Storage	27.20	1.5937	27.20	1.5937
Wharfage	6.66	0.3900	6.66	0.3900
Fees ²	3.33	0.1950	3.33	0.1950
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	97.01	5.6841	97.01	5.6841
Ocean Transportation	41.89	2.4548	41.89	2.4548
Storage	27.20	1.5937	27.20	1.5937
Wharfage	6.66	0.3900	6.66	0.3900
Fees ²	3.33	0.1950	3.33	0.1950
	<u>ULSD</u>			
ULSD **	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax ¹	26.38	2.0100		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees ²	3.40	0.1950		

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 October 1, 2018

		<u>October 1, 2018</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
PGV (25 MW)	- on peak	16.233	6.560
PGV (22 MW)	- off peak	15.872	5.430
WAILUKU HYDRO	- on peak	16.233	7.240
	off peak	15.872	5.970
Other: (<100 KW)	Sch Q Rate	15.670	
		<u>October 1, 2018</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
HEP		15.724	
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
October 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 (October 1, 2018)	89,810 mwh
6	Adjustment (Line 4 / Line 5)	(0.285) ¢/kwh

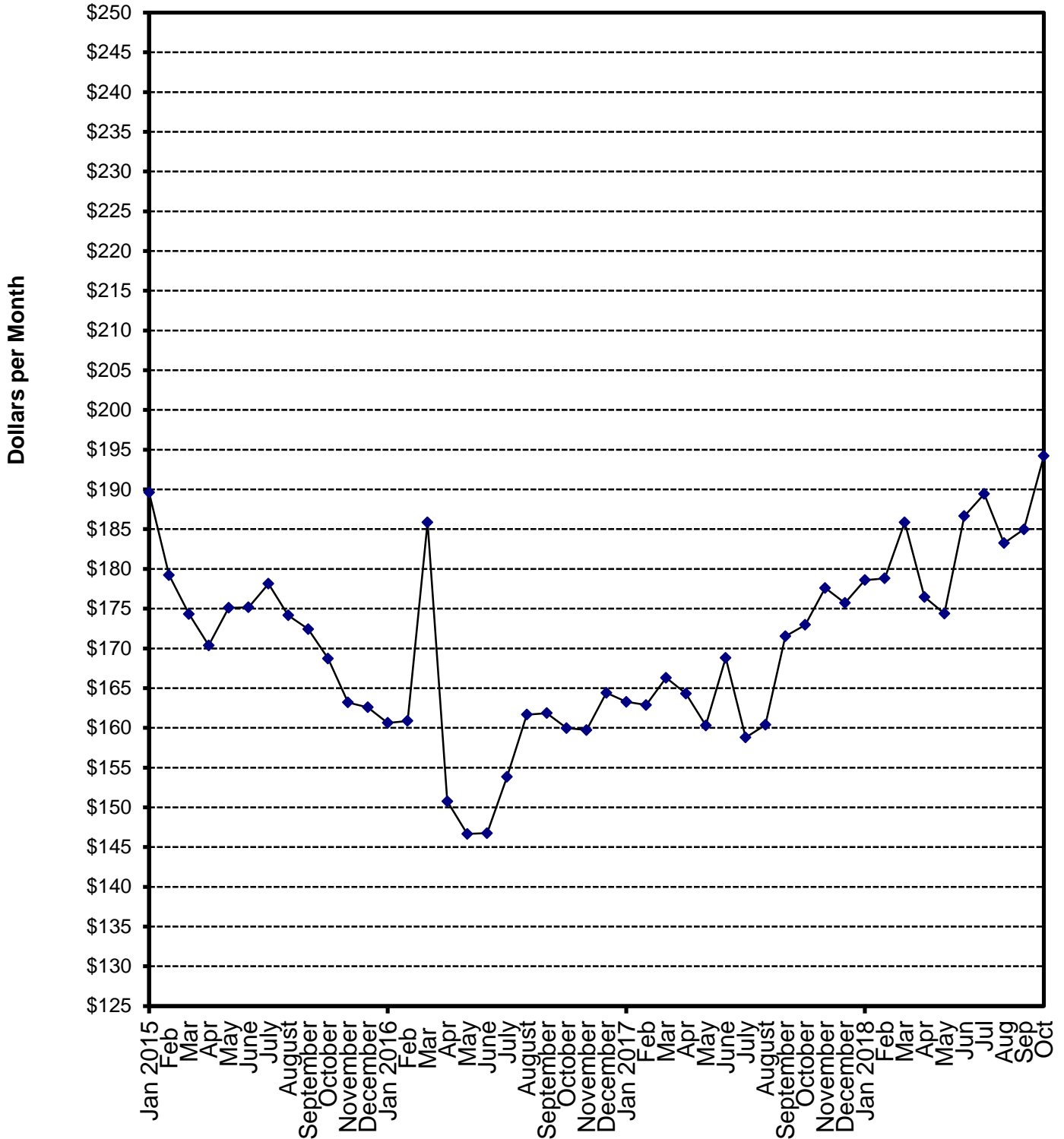
HAWAII ELECTRIC LIGHT COMPANY, INC.
2018 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
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)	(399,033)	(12,950)
August	699,900	[2]	(33,954)	733,854	(233,300)	(244,658)	476,246
September					(233,300)		
October					(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>	<u>FUEL FACTOR</u>		
	<u>CENTS / KWH</u>	<u>RESIDENTIAL BILL (\$)</u>	
	<u>RESIDENTIAL & 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

**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
6/1/2018	RBA RATE ADJUSTMENT	1.0006 CENTS/KWH
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
7/1/2018	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4658 CENTS/KWH
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
10/1/2018	INTERIM RATE INCREASE 2016	0.0000 PERCENT ON BASE
10/1/2018	FINAL RATE INCREASE (TY 2016) 0.53% EFFECTIVE 10/01/18, DOCKET NO. 2015-0170	

**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		
	09/01/18	10/01/18	09/01/18	10/01/18	Difference
Base Rates					
effective date:	4/9/2012	10/1/2018			
Base Fuel Energy Charge	¢/kwh 16.2487	10.2440	\$81.24	\$51.22	-\$30.02
Non-fuel Fuel Energy Charge	¢/kwh		\$62.72	\$71.85	\$9.13
First 300 kWh per month	¢/kwh 11.2019	13.0289	\$33.61	\$39.09	\$5.48
Next 700 kWh per month	¢/kwh 14.5537	16.3807	\$29.11	\$32.76	\$3.65
Customer Charge	\$ 10.50	11.50	\$10.50	\$11.50	\$1.00
Total Base Charges			\$154.46	\$134.57	-\$19.89
Interim Rate Increase 2016 TY	% on base 2.5000%	0.0000%	\$3.86	\$0.00	-\$3.86
RBA Rate Adjustment	¢/kwh 1.0006	1.0006	\$5.00	\$5.00	\$0.00
Purchased Power Adj. Clause	¢/kwh 1.5950	1.8602	\$7.98	\$9.30	\$1.32
PBF Surcharge	¢/kwh 0.4658	0.4658	\$2.33	\$2.33	\$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 2.0270	8.3590	\$10.14	\$41.80	\$31.66
Green Infrastructure Fee	\$ 1.2100	1.2100	\$1.21	\$1.21	\$0.00
Avg Residential Bill at 500 kwh			\$184.98	\$194.21	

Increase (Decrease -)	\$9.23
% Change	4.99%

	Rate		Charge (\$) at 600 Kwh		
	09/01/18	10/01/18	09/01/18	10/01/18	Difference
Base Rates					
effective date:	4/9/2012	10/1/2018			
Base Fuel/Energy Charge	¢/kwh 16.2487	10.2440	\$97.49	\$61.46	-\$36.03
Non-fuel Fuel Energy Charge	¢/kwh		\$77.27	\$88.23	\$10.96
First 300 kWh per month	¢/kwh 11.2019	13.0289	\$33.61	\$39.09	\$5.48
Next 700 kWh per month	¢/kwh 14.5537	16.3807	\$43.66	\$49.14	\$5.48
Customer Charge	\$ 10.50	11.50	\$10.50	\$11.50	\$1.00
Total Base Charges			\$185.26	\$161.19	-\$24.07
Interim Rate Increase 2016 TY	% on base 2.5000%	0.0000%	\$4.63	\$0.00	-\$4.63
RBA Rate Adjustment	¢/kwh 1.0006	1.0006	\$6.00	\$6.00	\$0.00
Purchased Power Adj. Clause	¢/kwh 1.5950	1.8602	\$9.57	\$11.16	\$1.59
PBF Surcharge	¢/kwh 0.4658	0.4658	\$2.79	\$2.79	\$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 2.0270	8.3590	\$12.16	\$50.15	\$37.99
Green Infrastructure Fee	\$ 1.2100	1.2100	\$1.21	\$1.21	\$0.00
Avg Residential Bill at 600 kwh			\$221.62	\$232.50	

Increase (Decrease -)	\$10.88
% Change	4.91%