



FILED

JAY IGNACIO, P. E.
President

September 28, 2016

2016 SEP 28 P 3:39

PUBLIC UTILITIES
COMMISSION

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

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Adjustment Factor for October 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for October 2016 is -3.427 cents per kilowatt-hour ("kWh"), a decrease of 0.387 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$159.97, a decrease of \$1.88 compared to the rates effective September 1, 2016. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$1.94) and the increase in the Purchased Power Adjustment Clause rate (+\$0.06).

Hawai'i Electric Light's fuel composite cost of generation decreased 55.29 cents per million BTU to 1004.83 cents per million BTU. The composite cost of distributed generation decreased 0.019 cents per kWh to 11.688 cents per kWh. The composite cost of purchased energy decreased 0.237 cents per kWh to 11.325 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 October 1, 2016.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>9/01/16</u>	<u>10/01/16</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,060.12	1,004.83	(55.29)
Dispersed Generation Energy, ¢/kWh	11.707	11.688	(0.019)
Purchased Energy, ¢/kWh	11.562	11.325	(0.237)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(3.040)	(3.427)	(0.387)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(3.040)	(3.427)	(0.387)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$161.85	\$159.97	(\$1.88)
600 KWH Consumption - \$/Bill	\$193.90	\$191.65	(\$2.25)

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

ENERGY COST ADJUSTMENT (ECA) FILING - October 1, 2016 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	October 1, 2016
2	Supercedes Factors of	September 1, 2016

GENERATION COMPONENT

<u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		668.66			
5	Puna Industrial		683.45			
6	Keahole Diesel		1,200.28			
6a	Keahole ULSD		1,252.43			
7	Waimea ULSD Diesel		1,248.85			
8	Hilo Diesel		1,164.10			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,221.33			
9	Puna Diesel		1,172.95			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		28.411			
14	Puna Industrial		0.000			
15	Keahole Diesel		62.206			
15a	Keahole ULSD		0.487			
16	Waimea ULSD Diesel		0.315			
17	Hilo Diesel		0.143			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.229			
18	Puna Diesel		4.580			
19	Wind		0.000			
20	Hydro		3.629			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,004.83			
22	% Input to System kWh Mix		36.887			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
			Percent of	Weighted		
	Fuel Type	Eff Factor	Centrl Stn +	Eff Factor		
		mmbtu/kwh	Wind/Hydro			
23	Industrial	0.015148	23.446	0.003552		
24	Diesel	0.010424	72.925	0.007602		
25	Other	0.012621	3.629	0.000458		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0116120		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			4.30401		
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)			(2.81394)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(3.08830)		
				<u>DG ENERGY COMPONENT</u>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	11.688
				36	% Input to System kWh Mix	0.149
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01742
				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)	0.00800
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.00937
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(3.08830)
				46	DG (line 44)	0.00937
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(3.07893)

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, 2016 (Page 2 of 2)

Line	<u>PURCHASED ENERGY COMPONENT</u>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		11.449
49	PGV	On Peak	8.897
50	PGV	Off Peak	10.096
51	PGV - Add'l 5 MW	On Peak	12.480
52	PGV - Add'l 5 MW	Off Peak	12.480
53	PGV - Add'l 8 MW	On Peak	9.520
54	PGV - Add'l 8 MW	Off Peak	6.340
55	Wailuku Hydro	On Peak	8.897
56	Wailuku Hydro	Off Peak	10.096
57	Hawi Renewable Dev.	On Peak	8.897
58	Hawi Renewable Dev.	Off Peak	10.096
59	Tawhiri (Pakini Nui)	On Peak	15.270
60	Tawhiri (Pakini Nui)	Off Peak	13.120
61			
62	Small Hydro (>100 KW)	On Peak	8.897
63	Small Hydro (>100 KW)	Off Peak	10.096
64	Sch Q Hydro (<100 KW)		9.120
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		31.038
67	PGV	On Peak	18.454
68	PGV	Off Peak	11.261
69	PGV - Addt'l	On Peak	3.138
70	PGV - Addt'l	Off Peak	2.645
71	PGV - Add'l 8 MW	On Peak	1.108
72	PGV - Add'l 8 MW	Off Peak	3.157
73	Wailuku Hydro	On Peak	0.997
74	Wailuku Hydro	Off Peak	0.712
75	Hawi Renewable Dev.	On Peak	4.533
76	Hawi Renewable Dev.	Off Peak	2.136
77	Tawhiri (Pakini Nui)	On Peak	11.719
78	Tawhiri (Pakini Nui)	Off Peak	6.990
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)		0.160
83	FIT		1.952
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.325
85	% Input to System kWh Mix		62.964
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		7.13067
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))		(0.06447)
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.07550)

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))	(3.15443)
95	Not Used	0.000
96	Not Used	0.000
97	ECA Reconciliation Adjustment	(0.273)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))	(3.427)

Hawaii Electric Light Company, Inc.
FUEL OIL INVENTORY PRICES FOR October 1, 2016

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	42.1255	42.1255
Land Transportation Cost - \$/BBL	--	0.9316
Industrial Costs For Filing - \$/BBL	42.1255	43.0571
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	668.66	683.45

DIESEL FUEL COSTS:

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	67.4912	67.4912	67.4912
Land Transportation Cost - \$/BBL	2.8452	1.2440	0.7250
Diesel Costs For Filing - \$/BBL	70.3364	68.7352	68.2162
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,200.28	1,172.95	1,164.10

ULSD FUEL COSTS:

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	69.1894	69.1894	69.1894	69.1894
Land Transportation Cost - \$/BBL	2.5749	2.3698	0.7929	-
ULSD Costs For Filing - \$/BBL	71.7643	71.5592	69.9823	69.1894
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,252.43	1,248.85	1,221.33	1,207.49

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	234.8168
\$/BBI Inv Cost:	69.1894
Fuel \$ (Prod Sim Consumption x Unit Cost)	16,246.83
Net kWh (from Prod Sim)	139,000
cents/kWh:	11.688

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 08/31/2016	0	0.00	32,242	1,395,420.38			
Less: Est'd Inventory Addn			0	0.00			
Purchases: Estimate	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	0	0.00	(36,249)	(1,558,823.43)			
Actual	0	0.00	37,242	1,622,518.40			
Consumed: Estimate	0	0.00	32,006	1,304,564.56			
Actual	0	0.00	(30,274)	(1,244,530.84)			
Balance Per G/L 08/31/2016	0	0.00	34,967	1,519,149.07			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	29,321	1,218,019.25			
Consumed	0	0.00	(23,903)	(1,037,084.24)	106.5901	0.0000	106.5901
Balance @ 09/30/2016	0	0.00	40,385	1,700,084.08			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 09/30/2016	0	0.00	40,385	1,700,084.08			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,700,084.08)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,701,239.39			
Total @ 9/30/2013 Avg Price	0	0.00	40,385	1,701,239.39			

Weighted Avg Cost/BBL by Location #DIV/0! 42.0969

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 42.1255

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 08/31/2016	8,214	353,236.62	7,586.19			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	(5,437)	(240,064.33)	(6,501.24)			
Actual	4,775	217,256.22	5,940.44			
Consumed: Estimate	3,790	154,480.40	1,516.00			
Actual	(4,008)	(164,764.47)	(2,908.31)			
Balance Per G/L 08/31/2016	<u>7,334</u>	<u>320,144.44</u>	<u>5,633.08</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	4,449	190,797	5,319.85			
Consumed	(2,964)	(128,599.66)	(2,737.55)	43.3872	0.9236	44.3108
Balance @ 09/30/2016	<u>8,819</u>	<u>382,341.70</u>	<u>8,215.38</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>8,819</u>	<u>382,341.70</u>	<u>8,215.38</u>		0.9316	
Reverse Fuel Balance	XXXXXXXXXXXX	(382,341.70)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	371,505.02	XXXXXXXXXXXX			
Total @ 10/01/2016 Avg Price	<u>8,819</u>	<u>371,505.02</u>	<u>8,215.38</u>			

Weighted Avg Cost/BBL by Location

43.3543

0.9316

Weighted Avg Cost/BBL @ Avg Cost

42.1255

0.9316

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 08/31/2016	48,360.7	2,031,150.0	3,415,636.1	124,504.7			
Less: Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	(1,901.6)	(79,869.0)	(114,212.7)	0.0			
Actual	1,814.0	76,186.0	108,946.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate	(48,239.6)	(2,026,063.0)	(3,421,264.9)	(128,934.8)			
Actual	47,850.2	2,009,709.0	3,364,487.3	130,091.54			
Consumed: Estimate	43,666.4	1,833,988.0	3,099,439.7	112,222.60			
Actual	(43,208.8)	(1,814,770.0)	(3,094,273.6)	(99,777.8)	71.6121		
Balance Per G/L 08/31/2016	48,341.2	2,030,331	3,358,757.87	138,106.22	69.4802		
Purchases	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer in	42,125.5	1,769,270.0	2,868,901.8	112,593.0	68.1037		
Consumed	(40,040.9)	(1,681,717.0)	(2,845,008.7)	(103,085.25)	71.0526	2.5745	73.6271
Balance @ 09/30/2016	51,881.8	2,179,036	3,463,371.59	147,613.94	66.7550		
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	51,881.8	2,179,036	3,463,371.59	147,613.94	66.7550		
Reverse Fuel Balance	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	(3,463,371.6)	xxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	3,501,565.3	xxxxxxxxxxxxxxx			
Total @ 10/01/2016 Avg Price	51,881.8	2,179,036	3,501,565.34	147,613.94	67.4912		

Weighted Avg Cost/BBL by Location

66.7550

2.8452

Weighted Avg Cost/BBL @ Avg Cost

67.4912

2.8452

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 08/31/2016	4,009.3	168,390.0	286,529.9	4,240.0			
Less: Est'd Inven Addition	(816.2)	(34,280.0)	(58,798.1)	(850.7)			
Purchases: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(1,668.0)	(70,055.0)	(118,776.6)	(1,738.5)			
Actual	2,194.6	92,173.0	176,055.8	2,546.3			
Consumed: Estimate	2,972.1	124,827.0	210,957.6	3,209.8			
Actual	(2,293.1)	(96,311.0)	(164,215.1)	(1,917.9)			
Balance Per G/L 08/31/2016	4,398.7	184,744	331,753.52	5,489.03			
Purchases		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	660.0	27,721.0	42,434.1	687.9	64.2918		
Consumed	(621.3)	(26,093)	(44,142.27)	(656.98)	71.0526	1.0575	72.1101
Balance @ 09/30/2016	4,437.4	186,372	330,045.40	5,519.99	74.3776		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 09/30/2016	4,437.4	186,372	330,045.40	5,519.99	74.3776		
Reverse Fuel Balance		xxxxxxxxxxxx	(330,045.40)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx	299,487.36	xxxxxxxxxxxx			
Total @ 10/01/2016 Avg Price	4,437.4	186,372	299,487.36	5,519.99	67.4912		

Weighted Avg Cost/BBL by Location 74.3776 1.2440

Weighted Avg Cost/BBL @ Avg Cost 67.4912 1.2440

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 08/31/2016	1378.0	57,877	98,038	974			
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	188.1	7900.0	13533.1	172.7			
Consumed: Estimate	71.3	2995.0	5061.6	50.6			
Actual	-58.4	-2452.0	-4180.8	-52.8			
Balance Per G/L 08/31/2016	1579.0	66,320	112,452.32	1,144.64	71.2153		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	0.0000		
Consumed	-10.8	-454.0	-768.0	-7.6	71.0526	0.7069	71.7595
Balance @ 09/30/2016	1,568.2	65,866	111,684.28	1,137.00	71.2164		
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	1,568.2	65,866	111,684.28	1,137.00	71.2164		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -111,684.28	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 105,842.26	XXXXXXXXXXXX			
Total @ 10/01/2016 Avg Price	1,568.2	65,866	105,842.26	1,137.00	67.4912		

Weighted Avg Cost/BBL by Location

71.2164 0.7250

Weighted Avg Cost/BBL @ Avg Cost

67.4912 0.7250

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 08/31/2016	2,102.3	88,295	144,854.78	5,429.89			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(13,343.36)	(507.83)			
Actual	0.0	0	0.00	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(222)	0.00	(14.13)			
Actual		151	0.00	0.00			
Consumed: Estimate	103.0	4,326	7,094.64	264.71			
Actual	(80.3)	(3,373)	(5,467.29)	(229.06)	68.0777		
Balance Per G/L 08/31/2016	1,933.3	81,197	133,138.77	4,943.58	68.8674		
Purchases	376.9	15,829	24,436.83	1,007.33	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(1.0)	(41)	0.00	(2.61)	0.00		
Consumed	(297.5)	(12,494)	(20,621.32)	(768.35)	69.3209	2.5829	71.9038
Balance @ 09/30/2016	2,011.7	84,491	136,954.28	5,179.95	68.0792		
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	2,011.7	84,491	136,954.28	5,179.95	68.0792		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(136,954.28)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	139,187.62	xxxxxxxxxxxx			
Total @ 10/01/2016 Avg Price	2,011.7	84,491	139,187.62	5,179.95	69.1894		

Weighted Avg Cost/BBL by Location

68.0792 2.5749

Weighted Avg Cost/BBL @ Avg Cost

69.1894 2.5749

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 08/31/2016	1,524.2	64,017.0	106,130.9	3,548.17			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,887)	(26,564.66)	(842.27)			
Actual		7,907.0	13,221.3	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	7.6	319	0.00	0.00			
Actual	(1.5)	(65)	0.00	419.20			
Consumed: Estimate	236.5	9,934	16,291.76	553.47			
Actual	(175.8)	(7,383)	(11,967.09)	(348.93)			
Balance Per G/L 08/31/2016	1,401.0	58,842	97,112.22	3,329.64	69.3164		
ULSD Purchases	188.4	7,912	12,214.54	419.47	64.8396		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	(216)	0.00	0.00	#DIV/0!		
Consumed	(124.7)	(5,239)	(8,646.96)	(290.38)	69.3209	2.3279	71.6488
Balance @ 09/30/2016	1,459.5	61,299	100,679.80	3,458.73	68.9824		
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	1,459.5	61,299	100,679.80	3,458.73	68.9824		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(100,679.80)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	100,981.90	xxxxxxxxxxxx			
Total @ 10/01/2016 Avg Price	1,459.5	61,299	100,981.90	3,458.73	69.1894		

Weighted Avg Cost/BBL by Location

68.9824 2.3698

Weighted Avg Cost/BBL @ Avg Cost

69.1894 2.3698

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 08/31/2016	1,358.8	57,068.0	94,582.9	954.2		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(190.0)	(7,980)	(13,343.36)	(174.78)		
Actual	188.2	7,903	13,167.20	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		381	0.00	8.34		
Actual		(482)	0.00	173.09		
Consumed: Estimate	218.3	9,169	15,037.16	199.29		
Actual	(160.4)	(6,736)	(10,918.37)	(45.76)		
Balance Per G/L 08/31/2016	1,412.5	59,323	98,525.52	1,114.41		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	(9)	(380)	0.00	(8.32)		
Consumed	(107.5)	(4,513)	(7,448.70)	(78.52)	69.3209	0.7023
Balance @ 09/30/2016	1,296.0	54,430	91,076.82	1,027.56		
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	1,296.0	54,430	91,076.82	1,027.56		
Reverse Fuel Balance	x	x	(91,076.82)	x		
Fuel Balance @ Avg Price	x	x	89,666.14	x		
Total @ 10/01/2016 Avg Price	1,296.0	54,430	89,666.14	1,027.56		

Weighted Avg Cost/BBL by Location

70.2779 0.7929

Weighted Avg Cost/BBL @ Avg Cost

69.1894 0.7929

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
September 2016

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 08/31/2016	86.9	3,650	6,036.94	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	(33.1)	(1,389)	(2,322.55)	
Actual	33.1	1,389	2,319.63	
Consumed: Estimate	26.5	1,113	1,825.32	
Actual	(21.5)	(901)	(372.35)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
Balance Per G/L 08/31/2016	91.95	3,862	7,486.99	81.4225
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
Consumed	(0.8)	(33)	(54.47)	69.3209
Balance @ 09/30/2016	91.2	3,829	7,432.52	81.5268
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 09/30/2016	91.2	3,829	7,432.52	
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(7,432.52)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	6,307.77	xxxx
Total @ 10/01/2016 Avg Price	91.2	3,829	6,307.77	69.1894

HAWAII ELECTRIC LIGHT COMPANY, INC.
CONTRACT PRICES EFFECTIVE September 1, 2016

TYPE OF OIL BURNED

	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
INDUSTRIAL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	40.29	2.5381	40.29	2.5381
Ocean Transportation	53.54	3.3732	53.54	3.3732
Storage	17.03	1.0729	17.03	1.0729
Wharfage	3.97	0.2500	3.97	0.2500
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
DIESEL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	69.78	4.0885	69.78	4.0885
Ocean Transportation	57.56	3.3732	57.56	3.3732
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.27	0.2500	4.27	0.2500
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
ULSD **	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	69.78	4.0885	69.78	4.0885
Ocean Transportation	57.56	3.3732	57.56	3.3732
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.27	0.2500	4.27	0.2500
	<u>ULSD</u>			
ULSD **	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax ¹	20.65	1.6226		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		

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

Note: Since the components above are not accounted for separately in 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, 2016

		October 1, 2016 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	8.897	6.560
PGV (22 MW)	- off peak	10.096	5.430
WAILUKU HYDRO	- on peak	8.897	7.240
	.	10.096	5.970
Other: (<100 KW)	Sch Q Rate	9.120	
		October 1, 2016 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		11.449	
PGV Addtl 5 MW	- on peak	12.4800	0.0000
	- off peak	12.4800	0.0000
PGV Addtl 8 MW	- on peak	9.5200	0.0000
	- off peak	6.3400	0.0000

Hawaii Electric Light Company, Inc.
Energy Cost Reconciliation Adjustment
October 1, 2016

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be returned or collected	(\$645,200)
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	(\$215,067)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$236,039)
5	Estimated MWh Sales (October 1, 2016)	86,520 mwh
6	Adjustment (Line 4 / Line 5)	(0.273) ¢/kwh

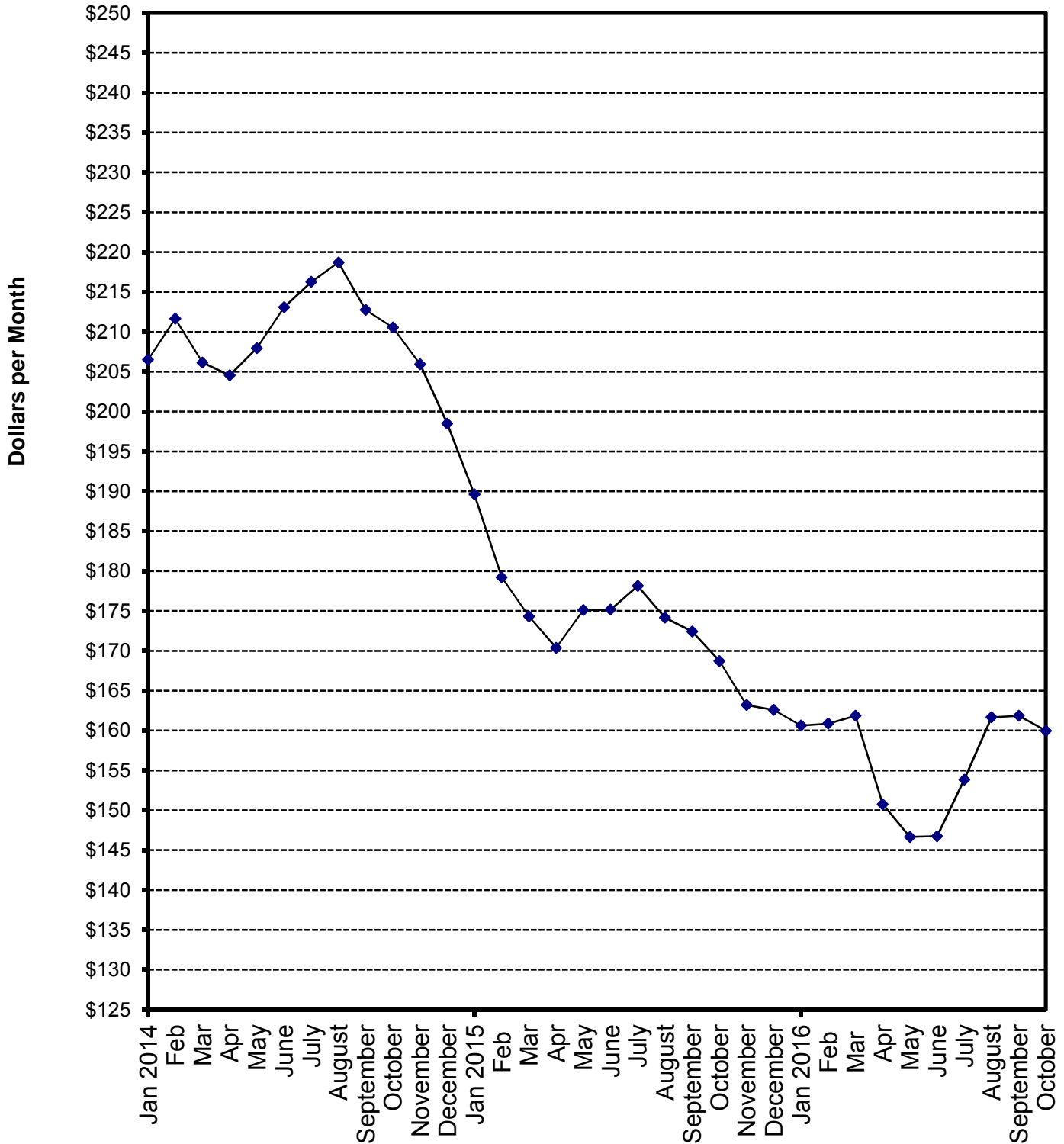
HAWAII ELECTRIC LIGHT COMPANY, INC.
2016 Cumulative Reconciliation Balance

<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)		
October					(215,067)		
November							
December							

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**

EFFECTIVE DATE	FUEL FACTOR CENTS / KWH		
	RESIDENTIAL & COMMERCIAL	@ 500 KWH	RESIDENTIAL BILL (\$) @ 600 KWH
January 1, 2012	9.690	214.24	256.34
January 3, 2012	10.759	219.59	262.75
February 1, 2012	9.220	211.89	253.52
March 1, 2012	10.165	216.62	259.19
April 1, 2012	10.031	215.03	257.28
April 9, 2012	8.553	210.84	252.91
May 1, 2012	8.749	213.77	256.42
June 1, 2012	9.747	218.76	262.41
July 1, 2012	9.320	215.64	258.68
August 1, 2012	7.991	209.09	250.82
September 1, 2012	8.636	212.31	254.69
October 1, 2012	8.294	210.60	252.63
November 1, 2012	6.967	203.82	244.49
December 1, 2012	6.629	202.13	242.46
January 1, 2013	6.897	204.02	244.72
February 1, 2013	7.250	205.19	246.14
March 1, 2013	7.659	207.24	248.59
April 1, 2013	8.128	208.10	249.63
May 1, 2013	7.378	205.53	246.54
June 1, 2013	7.159	207.61	249.02
July 1, 2013	6.537	204.73	245.57
August 1, 2013	6.470	206.02	247.13
September 1, 2013	7.377	210.60	252.62
October 1, 2013	8.458	216.00	259.11
November 1, 2013	7.878	211.84	254.11
December 1, 2013	7.910	212.03	254.35
January 1, 2014	6.796	206.51	247.73
February 1, 2014	7.754	211.65	253.89
March 1, 2014	6.650	206.15	247.28
April 1, 2014	6.679	204.55	245.36
May 1, 2014	7.005	207.96	249.46
June 1, 2014	7.247	213.09	255.62
July 1, 2014	7.697	216.27	259.42
August 1, 2014	8.086	218.71	262.36
September 1, 2014	6.885	212.75	255.20
October 1, 2014	6.447	210.55	252.56
November 1, 2014	5.634	205.93	247.03
December 1, 2014	4.143	198.49	237.84
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

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
01/01/12 - 12/31/12	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.6766 CENTS/KWH
01/01/12 - 04/08/12	INTERIM RATE INCREASE 2010 TEST YEAR	1.74 PERCENT ON BASE
04/01/12 - 04/08/12	FIRM CAPACITY SURCHARGE	0.6427 PERCENT ON BASE
04/01/12 - 04/30/12	SOLARSAVER ADJUSTMENT	-0.3899 CENTS/KWH
04/09/12	FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)	
04/09/12 - 7/31/2012	PURCHASED POWER ADJUSTMENT CLAUSE	2.4355 CENTS/KWH
05/01/12-3/31/13	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
06/18/12 - 5/31/2013	REVENUE BALANCING ACCOUNT RATE ADJUSTMENT	-0.1952 CENTS/KWH
8/1/2012 - 10/31/2012	PURCHASED POWER ADJUSTMENT CLAUSE	2.4540 CENTS/KWH
11/1/2012-1/31/13	PURCHASED POWER ADJUSTMENT CLAUSE	2.4237 CENTS/KWH
01/01/13-6/30/13	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
02/01/13-4/30/13	PURCHASED POWER ADJUSTMENT CLAUSE	2.3063 CENTS/KWH
04/01/13 - 04/30/13	SOLARSAVER ADJUSTMENT	-0.2964 CENTS/KWH
05/01/13 - 03/31/14	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
05/01/13- 07/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.2452 CENTS/KWH
6/1/2013-5/31/14	RBA RATE ADJUSTMENT	0.4383 CENTS/KWH
7/1/2013-6/30/14	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.8312 CENTS/KWH
8/1/2013-8/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.5712 CENTS/KWH
9/1/2013-9/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.5832 CENTS/KWH
10/1/2013-10/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.5802 CENTS/KWH
11/1/2013-11/30/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.3272 CENTS/KWH
12/1/2013-12/31/2013	PURCHASED POWER ADJUSTMENT CLAUSE	2.3347 CENTS/KWH
1/1/2014-1/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.3444 CENTS/KWH
2/1/2014-2/28/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4149 CENTS/KWH
3/1/2014-3/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4170 CENTS/KWH
4/1/2014-4/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4162 CENTS/KWH
4/1/2014-4/30/2014	SOLARSAVER ADJUSTMENT	-0.3486 CENTS/KWH
5/1/2014-5/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4248 CENTS/KWH
5/1/2014-5/31/2014	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2014-6/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4244 CENTS/KWH
6/1/2014-5/31/15	RBA RATE ADJUSTMENT	1.2225 CENTS/KWH
7/1/2014-7/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4252 CENTS/KWH
7/1/2014-11/30/14	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
8/1/2014-8/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5250 CENTS/KWH
9/1/2014-9/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5341 CENTS/KWH
10/1/2014-10/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5314 CENTS/KWH
11/1/2014-11/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4226 CENTS/KWH
12/1/2014-12/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4235 CENTS/KWH
12/1/2014-6/30/15	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
12/1/2014-6/30/15	GREEN INFRASTRUCTURE FEE	1.2900 DOLLARS/MONTH
1/1/2015-1/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.4245 CENTS/KWH
2/1/2015-2/28/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2273 CENTS/KWH
3/1/2015-3/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2539 CENTS/KWH
4/1/2015-4/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2424 CENTS/KWH
4/1/2015-4/30/2015	SOLARSAVER ADJUSTMENT	-0.3084 CENTS/KWH
5/1/2015-5/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3109 CENTS/KWH
5/1/2015-4/30/16	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2015-6/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3064 CENTS/KWH
6/1/2015-6/7/2015	RBA RATE ADJUSTMENT	0.0000 CENTS/KWH
6/8/2015-05/31/16	RBA RATE ADJUSTMENT	1.3971 CENTS/KWH
7/1/2015-7/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3157 CENTS/KWH
7/1/2015-06/30/16	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
7/1/2015-12/31/2015	GREEN INFRASTRUCTURE FEE	1.4200 DOLLARS/MONTH
8/1/2015-8/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3703 CENTS/KWH
9/1/2015-9/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3651 CENTS/KWH
10/1/2015-10/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3699 CENTS/KWH
11/1/2015-11/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3204 CENTS/KWH
12/1/2015-12/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3299 CENTS/KWH
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

**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		
	9/01/16	10/01/16	9/01/16	10/01/16	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
RBA Rate Adjustment	¢/kwh 1.4241	1.4241	\$7.12	\$7.12	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.2824	2.2930	\$11.41	\$11.47	\$0.06
PBF Surcharge	¢/kwh 0.5865	0.5865	\$2.93	\$2.93	\$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 (3.0400)	(3.4270)	-\$15.20	-\$17.14	-\$1.94
Green Infrastructure Fee	\$ 1.1300	1.1300	\$1.13	\$1.13	\$0.00
Avg Residential Bill at 500 kwh			\$161.85	\$159.97	
			Increase (Decrease -)		-\$1.88
			% Change		-1.16%

	Rate		Charge (\$) at 600 Kwh		
	9/01/16	10/01/16	9/01/16	10/01/16	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
RBA Rate Adjustment	¢/kwh 1.4241	1.4241	\$8.54	\$8.54	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.2824	2.2930	\$13.69	\$13.76	\$0.07
PBF Surcharge	¢/kwh 0.5865	0.5865	\$3.52	\$3.52	\$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 (3.0400)	(3.4270)	-\$18.24	-\$20.56	-\$2.32
Green Infrastructure Fee	\$ 1.1300	1.1300	\$1.13	\$1.13	\$0.00
Avg Residential Bill at 600 kwh			\$193.90	\$191.65	
			Increase (Decrease -)		-\$2.25
			% Change		-1.16%