



JAY IGNACIO, P. E.
President

August 29, 2016

FILED

2016 AUG 29 P 4:06

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 September 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for September 2016 is -3.040 cents per kilowatt-hour ("kWh"), an increase of 0.054 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$161.85, an increase of \$0.18 compared to the rates effective August 1, 2016. The increase in the typical residential bill is due to the increase in the energy cost adjustment factor (+\$0.27), and the decrease in the Purchased Power Adjustment Clause rate (-\$0.09).

Hawai'i Electric Light's fuel composite cost of generation increased 65.81 cents per million BTU to 1060.12 cents per million BTU. The composite cost of distributed generation decreased 0.129 cents per kWh to 11.707 cents per kWh. The composite cost of purchased energy decreased 0.208 cents per kWh to 11.562 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 September 1, 2016.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>8/01/16</u>	<u>9/01/16</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	994.31	1,060.12	65.81
Dispersed Generation Energy, ¢/kWh	11.836	11.707	(0.129)
Purchased Energy, ¢/kWh	11.770	11.562	(0.208)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(3.094)	(3.040)	0.054
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(3.094)	(3.040)	0.054
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$161.67	\$161.85	\$0.18
600 KWH Consumption - \$/Bill	\$193.69	\$193.90	\$0.21

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

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

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

GENERATION COMPONENT

<u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u>						
FUEL PRICES, \$/mmbtu						
3						
4	Hill Industrial		688.69			
5	Puna Industrial		703.35			
6	Keahole Diesel		1,256.44			
6a	Keahole ULSD		1,254.87			
7	Waimea ULSD Diesel		1,250.41			
8	Hilo Diesel		1,224.56			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,222.05			
9	Puna Diesel		1,230.55			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		26.912			
14	Puna Industrial		0.000			
15	Keahole Diesel		61.811			
15a	Keahole ULSD		0.679			
16	Waimea ULSD Diesel		0.516			
17	Hilo Diesel		0.217			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.380			
18	Puna Diesel		6.167			
19	Wind		0.000			
20	Hydro		3.318			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO \$/mmb		1,060.12			
22	% Input to System kWh Mix		41.172			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
			Percent of			
	Fuel Type	Eff Factor	Centrl Stn +	Weighted		
		mmbtu/kwh	Wind/Hydro	Eff Factor		
23	Industrial	0.015148	22.116	0.003350		
24	Diesel	0.010424	74.566	0.007773		
25	Other	0.012621	3.318	0.000419		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0115420		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, \$/kWh (Lines (21 x 22 x 26))			5.03777		
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)			(2.08018)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, \$/kWh (Line (32 x 33))			(2.28300)		
				<u>DG ENERGY COMPONENT</u>		
				35	COMPOSITE COST OF DG ENERGY, \$/kWh	11.707
				36	% Input to System kWh Mix	0.277
				37	WEIGHTED COMPOSITE DG ENERGY COST, \$/kWh (Lines 35 x 36)	0.03243
				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)	0.02301
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, \$/kWh (Line 41 x 42 x 43)	0.02695
				SUMMARY OF		
				TOTAL GENERATION FACTOR, \$/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(2.28300)
				46	DG (line 44)	0.02695
				47	TOTAL GENERATION FACTOR, \$/kWh (lines 45 + 46)	(2.25605)

¹ Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	<u>PURCHASED ENERGY COMPONENT</u>		
	PURCHASED ENERGY PRICE, \$/kWh		
48	HEP		11.980
49	PGV	On Peak	9.289
50	PGV	Off Peak	10.523
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	9.289
56	Wailuku Hydro	Off Peak	10.523
57	Hawi Renewable Dev.	On Peak	9.289
58	Hawi Renewable Dev.	Off Peak	10.523
59	Tawhiri (Pakini Nui)	On Peak	15.500
60	Tawhiri (Pakini Nui)	Off Peak	13.230
61			
62	Small Hydro (>100 KW)	On Peak	9.289
63	Small Hydro (>100 KW)	Off Peak	10.523
64	Sch Q Hydro (<100 KW)		9.520
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		32.018
67	PGV	On Peak	20.127
68	PGV	Off Peak	12.481
69	PGV - Add'l	On Peak	3.713
70	PGV - Add'l	Off Peak	2.888
71	PGV - Add'l 8 MW	On Peak	1.382
72	PGV - Add'l 8 MW	Off Peak	3.498
73	Wailuku Hydro	On Peak	0.525
74	Wailuku Hydro	Off Peak	0.349
75	Hawi Renewable Dev.	On Peak	3.829
76	Hawi Renewable Dev.	Off Peak	1.426
77	Tawhiri (Pakini Nui)	On Peak	9.223
78	Tawhiri (Pakini Nui)	Off Peak	6.207
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)		0.218
83	FIT		2.116
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, \$/kWh		11.562
85	% Input to System kWh Mix		58.551
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, \$/kWh (Lines (84 x 85))		6.76967
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))		(0.42547)
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, \$/kWh (Lines (90 x 91 x 92))		(0.49824)

Line	<u>SYSTEM COMPOSITE</u>		
94	GENERATION AND PURCHASED ENERGY FACTOR, \$/kWh (Lines (47 + 93))		(2.75429)
95	Not Used		0.000
96	Not Used		0.000
97	ECA Reconciliation Adjustment		(0.286)
98	ECA FACTOR, \$/kWh (Lines (94 + 95+ 96 + 97))		(3.040)

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	43.3872	43.3872
Land Transportation Cost - \$/BBL	--	0.9236
Industrial Costs For Filing - \$/BBL	43.3872	44.3108
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	688.69	703.35

DIESEL FUEL COSTS:

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	71.0526	71.0526	71.0526
Land Transportation Cost - \$/BBL	2.5745	1.0575	0.7069
Diesel Costs For Filing - \$/BBL	73.6271	72.1102	71.7595
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,256.44	1,230.55	1,224.56

ULSD FUEL COSTS:

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	69.3209	69.3209	69.3209	69.3209
Land Transportation Cost - \$/BBL	2.5829	2.3279	0.7023	-
ULSD Costs For Filing - \$/BBL	71.9038	71.6488	70.0232	69.3209
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,254.87	1,250.41	1,222.05	1,209.79

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	415.4450
\$/BBI Inv Cost:	69.3209
Fuel \$ (Prod Sim Consumption x Unit Cost)	28,799.02
Net kWh (from Prod Sim)	246,000
cents/kWh:	11.707

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 07/31/2016	0	0.00	32,604	1,352,703.72			
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	(42,417)	(1,695,539.92)			
Actual	0	0.00	38,290	1,526,837.52			
Consumed: Estimate	0	0.00	44,977	1,675,826.26			
Actual	0	0.00	(45,455)	(1,718,666.07)			
Balance Per G/L 07/31/2016	0	0.00	27,999	1,141,161.51			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	36,249	1,558,823.43			
Consumed	0	0.00	(32,006)	(1,304,564.56)	106.5901	0.0000	106.5901
Balance @ 08/31/2016	0	0.00	32,242	1,395,420.38			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 08/31/2016	0	0.00	32,242	1,395,420.38			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,395,420.38)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,398,889.62			
Total @ 9/30/2013 Avg Price	0	0.00	32,242	1,398,889.62			

Weighted Avg Cost/BBL by Location #DIV/0! 43.2796

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 43.3872

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 07/31/2016	7,283	284,070.66	9,660.12			
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	(3,203)	(136,948.92)	(3,829.96)			
Actual	3,141	136,822.51	3,960.29			
Consumed: Estimate	4,669	173,965.20	6,500.65			
Actual	<u>(5,323)</u>	<u>(190,256.76)</u>	<u>(13,690.15)</u>			
Balance Per G/L 07/31/2016	<u>6,567</u>	<u>267,652.69</u>	<u>2,600.95</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	5,437	240,064	6,501.24			
Consumed	(3,790)	<u>(154,480.40)</u>	(1,516.00)	40.7600	0.4000	41.1600
Balance @ 08/31/2016	<u>8,214</u>	<u>353,236.62</u>	<u>7,586.19</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>8,214</u>	<u>353,236.62</u>	<u>7,586.19</u>		0.9236	
Reverse Fuel Balance	XXXXXXXXXXXX	(353,236.62)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	356,382.34	XXXXXXXXXXXX			
Total @ 09/01/2016 Avg Price	<u>8,214</u>	<u>356,382.34</u>	<u>7,586.19</u>			

Weighted Avg Cost/BBL by Location

43.0042

0.9236

Weighted Avg Cost/BBL @ Avg Cost

43.3872

0.9236

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

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	BARREL LT	TOTAL
Balance at 07/31/2016	43,102.5	1,810,306.0	3,020,658.0	121,925.4			
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	(39,625.9)	(1,664,287.0)	(2,858,948.1)	(105,912.1)			
Actual	38,079.6	1,599,344.0	2,723,038.9	100,074.03			
Consumed: Estimate	47,908.0	2,012,135.0	3,078,250.4	134,717.23			
Actual	(47,578.4)	(1,998,292.0)	(2,983,400.9)	(143,012.1)	62.7050		
Balance Per G/L 07/31/2016	41,885.9	1,759,206	2,979,598.23	107,792.48	71.1361		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	48,239.6	2,026,063.0	3,421,264.9	128,934.8	70.9223		
Consumed	(43,666.4)	(1,833,988.0)	(3,099,439.7)	(112,222.60)	70.9800	2.5700	73.5500
Balance @ 08/31/2016	48,360.7	2,031,150	3,415,636.07	124,504.67	70.6283		
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	48,360.7	2,031,150	3,415,636.07	124,504.67	70.6283		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(3,415,636.1)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	3,436,156.1	xxxxxxxxxxxxxxxx			
Total @ 09/01/2016 Avg Price	48,360.7	2,031,150	3,436,156.12	124,504.67	71.0526		

Weighted Avg Cost/BBL by Location 70.6283 2.5745

Weighted Avg Cost/BBL @ Avg Cost 71.0526 2.5745

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 07/31/2016	4,154.0	174,468.0	330,176.1	4,153.0			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(5,386.8)	(226,246.0)	(405,554.1)	(5,614.7)			
Actual	5,431.5	228,124.0	426,282.5	5,874.5			
Consumed: Estimate	4,871.8	204,616.0	313,030.3	6,290.5			
Actual	(4,573.3)	(192,080.0)	(344,022.0)	(5,842.7)			
Balance Per G/L 07/31/2016	4,497.2	188,882	319,912.78	4,860.60			
Purchases		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx		
Transfer out		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx		
Transfer in	1,668.0	70,055.0	118,776.6	1,738.5	71.2100		
Consumed	(2,972.1)	(124,827)	(210,957.63)	(3,209.84)	70.9800	1.0800	72.0600
Balance @ 08/31/2016	3,193.1	134,110	227,731.78	3,389.29	71.3201		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 08/31/2016	4,009.3	168,390	286,529.91	4,240.02	71.4664		
Reverse Fuel Balance		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx (286,529.91)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx 284,870.99	xxxxxxxxxxxx			
Total @ 09/01/2016 Avg Price	4,009.3	168,390	284,870.99	4,240.02	71.0526		

Weighted Avg Cost/BBL by Location 71.4664 1.0575

Weighted Avg Cost/BBL @ Avg Cost 71.0526 1.0575

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 07/31/2016	1397.0	58,676	83,354	1,528			
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	-189.0	-7938.0	-14248.5	-173.9			
Actual	189.0	7938.0	14228.4	173.1			
Consumed: Estimate	166.5	6995.0	10701.3	186.7			
Actual	-114.3	-4799.0	9065.0	-688.8			
Balance Per G/L 07/31/2016	1449.3	60,872	103,099.98	1,024.69	71.1361		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	0.0000		
Consumed	-71.3	-2995.0	-5061.6	-50.6	70.9800	0.7100	71.6900
Balance @ 08/31/2016	1,378.0	57,877	98,038.43	974.06	71.1442		
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	1,378.0	57,877	98,038.43	974.06	71.1442		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX	-98,038.43	XXXXXXXXXXXX		
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX	97,912.22	XXXXXXXXXXXX		
Total @ 09/01/2016 Avg Price	1,378.0	57,877	97,912.22	974.06	71.0526		

Weighted Avg Cost/BBL by Location

71.1442 0.7069

Weighted Avg Cost/BBL @ Avg Cost

71.0526 0.7069

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 07/31/2016	1,919.1	80,602	130,777.51	5,473.55			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(188.1)	(7,902)	(12,833.65)	(502.87)			
Actual	188.1	7,902	13,932.80	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(39)	0.00	(2.48)			
Actual		(123)	0.00	502.87			
Consumed: Estimate	337.0	14,155	22,968.68	967.46			
Actual	(242.3)	(10,176)	(16,239.28)	(1,265.89)	67.0253		
Balance Per G/L 07/31/2016	2,010.0	84,419	138,606.06	5,172.64	68.9591		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	190.0	7,980	13,343.36	507.83			
Transfer in	5.3	222	0.00	14.13	0.00		
Consumed	(103.0)	(4,326)	(7,094.64)	(264.71)	68.8800	2.5700	71.4500
Balance @ 08/31/2016	2,102.3	88,295	144,854.78	5,429.89	68.9043		
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	2,102.3	88,295	144,854.78	5,429.89	68.9043		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(144,854.78)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	145,730.69	xxxxxxxxxxxx			
Total @ 09/01/2016 Avg Price	2,102.3	88,295	145,730.69	5,429.89	69.3209		

Weighted Avg Cost/BBL by Location

68.9043 2.5829

Weighted Avg Cost/BBL @ Avg Cost

69.3209 2.5829

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 07/31/2016	1,527.8	64,168.0	102,476.8	3,497.76			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,890)	(25,806.97)	(842.43)			
Actual		7,910.0	13,946.9	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(24.4)	(1,025)	0.00	0.00			
Actual	8.4	352	0.00	419.36			
Consumed: Estimate	335.0	14,070	22,830.75	774.49			
Actual	(266.7)	(11,202)	(17,589.49)	(589.81)			
Balance Per G/L 07/31/2016	1,390.1	58,383	95,858.01	3,259.37	68.9591		
ULSD Purchases	188.3	7,907	13,221.30	419.20	70.2282		
Estimated Purchases	190.0	7,980	13,343.36	423.07			
Transfer in	xxxxxxxxxxxx	(319)	0.00	0.00	#DIV/0!		
Consumed	(236.5)	(9,934)	(16,291.76)	(553.47)	68.8800	2.3400	71.2200
Balance @ 08/31/2016	1,524.2	64,017	106,130.91	3,548.18	69.6299		
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	1,524.2	64,017	106,130.91	3,548.18	69.6299		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(106,130.91)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	105,659.91	xxxxxxxxxxxx			
Total @ 09/01/2016 Avg Price	1,524.2	64,017	105,659.91	3,548.18	69.3209		
Weighted Avg Cost/BBL by Location			69.6299	2.3279			
Weighted Avg Cost/BBL @ Avg Cost			69.3209	2.3279			

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 07/31/2016	1,404.4	58,985.0	97,005.7	400.7		
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		495	0.00	10.84		
Actual		(724)	0.00	0.00		
Consumed: Estimate	33.4	1,404	2,278.21	42.57		
Actual	(36.2)	(1,522)	(3,007.20)	532.98		
Balance Per G/L 07/31/2016	1,396.1	58,638	96,276.69	987.08		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	190	-	-	-		
Transfer in	(9)	(381)	0.00	(8.34)		
Consumed	(218.3)	(9,169)	(15,037.16)	(199.29)	68.88	0.7100
Balance @ 08/31/2016	1,358.8	57,068	94,582.89	954.23		
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	1,358.8	57,068	94,582.89	954.23		
Reverse Fuel Balance	x	x	(94,582.89)	x		
Fuel Balance @ Avg Price	x	x	94,190.60	x		
Total @ 09/01/2016 Avg Price	1,358.8	57,068	94,190.60	954.23		
Weighted Avg Cost/BBL by Location			69.6096	0.7023		
Weighted Avg Cost/BBL @ Avg Cost			69.3209	0.7023		

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 07/31/2016	79.5	3,340	5,419.84	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX;XXXXXXXXXX		
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	10.2	430	697.74	
Actual	(9.4)	(396)	(577.87)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 07/31/2016	80.33	3,374	5,539.71	68.9590
Purchases	33.1	1,389	2,322.55	70.2283
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(26.5)	(1,113)	(1,825.32)	68.8800
Balance @ 08/31/2016	86.9	3,650	6,036.94	69.4662
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 08/31/2016	86.9	3,650	6,036.94	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(6,036.94)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	6,024.32	xxxx
Total @ 09/01/2016 Avg Price	86.9	3,650	6,024.32	69.3209

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

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	42.49	2.6767	42.49	2.6767
Ocean Transportation	50.63	3.1895	50.63	3.1895
Storage	17.03	1.0729	17.03	1.0729
Wharfage	3.97	0.2500	3.97	0.2500

DIESEL *	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	73.65	4.3154	73.65	4.3154
Ocean Transportation	54.43	3.1895	54.43	3.1895
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>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	73.65	4.3154	73.65	4.3154
Ocean Transportation	54.43	3.1895	54.43	3.1895
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.27	0.2500	4.27	0.2500

ULSD **	<u>ULSD</u>	
	<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 September 1, 2016

		September 1, 2016 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	9.289	6.560
PGV (22 MW)	- off peak	10.523	5.430
WAILUKU HYDRO	- on peak	9.289	7.240
	.	10.523	5.970
Other: (<100 KW)	Sch Q Rate	9.520	
		September 1, 2016 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		11.980	
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
September 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 (September 1, 2016)	82,470 mwh
6	Adjustment (Line 4 / Line 5)	(0.286) ¢/kwh

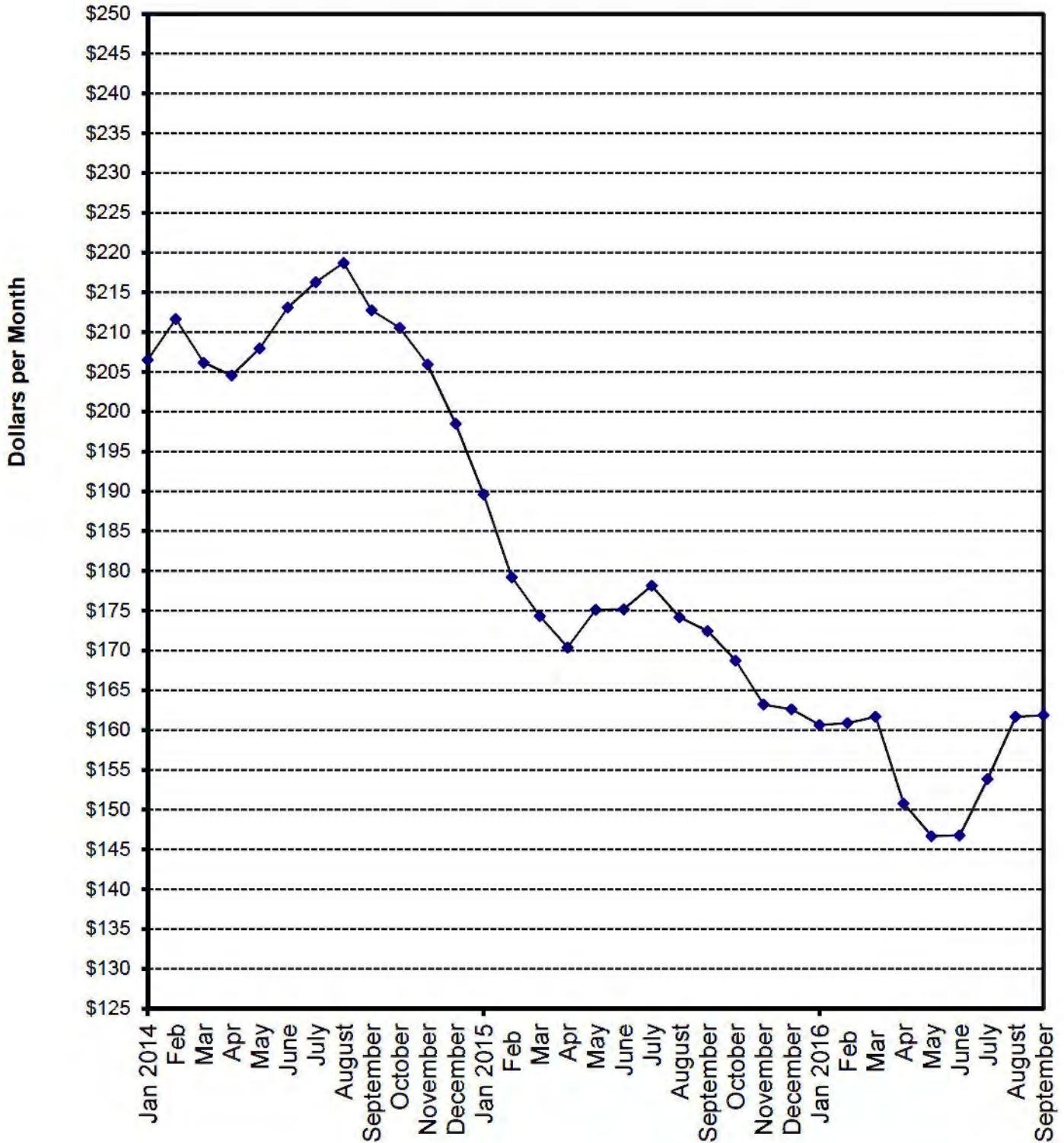
HAWAII ELECTRIC LIGHT COMPANY, INC.
2016 Cumulative Reconciliation Balance

<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)		
September							
October							
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**

<u>EFFECTIVE DATE</u>	<u>FUEL FACTOR CENTS / KWH</u>		
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>@ 500 KWH</u>	<u>RESIDENTIAL BILL (\$) @ 600 KWH</u>
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

**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

**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			
	8/01/16	9/01/16	8/01/16	9/01/16	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	2.3000	2.2824	\$11.50	\$11.41	-\$0.09
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	(3.0940)	(3.0400)	-\$15.47	-\$15.20	\$0.27
Green Infrastructure Fee	\$	1.1300	1.1300	\$1.13	\$1.13	\$0.00
Avg Residential Bill at 500 kwh				\$161.67	\$161.85	

Increase (Decrease -)	\$0.18
% Change	0.11%

	Rate		Charge (\$) at 600 Kwh			
	8/01/16	9/01/16	8/01/16	9/01/16	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	2.3000	2.2824	\$13.80	\$13.69	-\$0.11
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	(3.0940)	(3.0400)	-\$18.56	-\$18.24	\$0.32
Green Infrastructure Fee	\$	1.1300	1.1300	\$1.13	\$1.13	\$0.00
Avg Residential Bill at 600 kwh				\$193.69	\$193.90	

Increase (Decrease -)	\$0.21
% Change	0.11%