



JAY IGNACIO, P. E.  
President

June 28, 2016

FILED

2016 JUN 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 July 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for July 2016 is -4.248 cents per kilowatt-hour ("kWh"), an increase of 1.298 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$153.85, an increase of \$7.11 compared to the rates effective June 1, 2016. The increase in the typical residential bill is due to the increase in the energy cost adjustment factor (+\$6.49), the increase in the Purchased Power Adjustment Clause rate (+\$0.23), the increase in the Public Benefits Fund Surcharge (+\$0.56), and the decrease in the Green Infrastructure Fee (-\$0.17).

Hawai'i Electric Light's fuel composite cost of generation increased 154.84 cents per million BTU to 885.73 cents per million BTU. The composite cost of distributed generation decreased 0.238 cents per kWh to 11.810 cents per kWh. The composite cost of purchased energy increased 1.132 cents per kWh to 11.900 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 July 1, 2016.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>6/01/16</u>	<u>7/01/16</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	730.89	885.73	154.84
Dispersed Generation Energy, ¢/kWh	12.048	11.810	(0.238)
Purchased Energy, ¢/kWh	10.768	11.900	1.132
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(5.546)	(4.248)	1.298
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(5.546)	(4.248)	1.298
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$146.74	\$153.85	\$7.11
600 KWH Consumption - \$/Bill	\$175.74	\$184.31	\$8.57

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

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

<u>Line</u>		
1	Effective Date	July 1, 2016
2	Supercedes Factors of	June 1, 2016

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		591.42			
5	Puna Industrial		613.52			
6	Keahole Diesel		1,144.46			
6a	Keahole ULSD		1,239.48			
7	Waimea ULSD Diesel		1,229.73			
8	Hilo Diesel		1,115.61			
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,208.05			
9	Puna Diesel		1,118.51			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		34.970			
14	Puna Industrial		2.217			
15	Keahole Diesel		44.349			
15a	Keahole ULSD		1.849			
16	Waimea ULSD Diesel		1.695			
17	Hilo Diesel		0.264			
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.572			
18	Puna Diesel		9.310			
19	Wind		0.000			
20	Hydro		4.774			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		885.73			
22	% Input to System kWh Mix		43.576			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
			Percent of			
			Centrl Stn +			
			Wind/Hydro			
	Fuel Type	Eff Factor	Weighted			
		mmbtu/kwh	Eff Factor			
23	Industrial	0.015148	32.675	0.004950		
24	Diesel	0.010424	62.552	0.006520		
25	Other	0.012621	4.774	0.000603		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0120730		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			4.65976		
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)			(2.45819)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(2.69786)		
				<b><u>DG ENERGY COMPONENT</u></b>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	11.810
				36	% Input to System kWh Mix	0.867
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.10240
				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)	0.09298
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.10888
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(2.69786)
				46	DG (line 44)	0.10888
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(2.58898)

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

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

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

Line	<u>PURCHASED ENERGY COMPONENT</u>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		12.881
49	PGV	On Peak	9.535
50	PGV	Off Peak	10.865
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	9.535
56	Wailuku Hydro	Off Peak	10.865
57	Hawi Renewable Dev.	On Peak	9.535
58	Hawi Renewable Dev.	Off Peak	10.865
59	Tawhiri (Pakini Nui)	On Peak	15.900
60	Tawhiri (Pakini Nui)	Off Peak	13.380
61			
62	Small Hydro (>100 KW)	On Peak	9.535
63	Small Hydro (>100 KW)	Off Peak	10.865
64	Sch Q Hydro (<100 KW)		9.810
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		19.054
67	PGV	On Peak	20.621
68	PGV	Off Peak	12.857
69	PGV - Addt'l	On Peak	3.854
70	PGV - Addt'l	Off Peak	2.977
71	PGV - Add'l 8 MW	On Peak	1.301
72	PGV - Add'l 8 MW	Off Peak	3.614
73	Wailuku Hydro	On Peak	1.135
74	Wailuku Hydro	Off Peak	0.724
75	Hawi Renewable Dev.	On Peak	6.004
76	Hawi Renewable Dev.	Off Peak	3.166
77	Tawhiri (Pakini Nui)	On Peak	14.424
78	Tawhiri (Pakini Nui)	Off Peak	8.942
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)		0.232
83	FIT		1.095
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.900
85	% Input to System kWh Mix		55.557
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.61128
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))		(0.58386)
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.68372)

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))	(3.27270)
95	Not Used	0.000
96	Not Used	0.000
97	ECA Reconciliation Adjustment	(0.975)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))	(4.248)

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

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	37.2596	37.2596
Land Transportation Cost - \$/BBL	--	1.3923
Industrial Costs For Filing - \$/BBL	37.2596	38.6519
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	591.42	613.52

**DIESEL FUEL COSTS:**

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	64.2534	64.2534	64.2534
Land Transportation Cost - \$/BBL	2.8120	1.2912	1.1211
Diesel Costs For Filing - \$/BBL	67.0653	65.5445	65.3745
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,144.46	1,118.51	1,115.61

**ULSD FUEL COSTS:**

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	68.1515	68.1515	68.1515	68.1515
Land Transportation Cost - \$/BBL	2.8706	2.3119	1.0700	-
ULSD Costs For Filing - \$/BBL	71.0220	70.4633	69.2215	68.1515
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,239.48	1,229.73	1,208.05	1,189.38

**Dispersed Generation, cents per kWh**

	COMPOSITE COST OF DISP. GEN.
BBIs Fuel:	1408.9005
\$/BBI Inv Cost:	68.1515
Fuel \$ (Prod Sim Consumption x Unit Cost)	96,018.62
Net kWh (from Prod Sim)	813,000
cents/kWh:	11.810

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 05/31/2016	0	0.00	37,359	1,252,096.87			
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	(50,248)	(1,616,627.74)			
Actual	0	0.00	52,664	1,702,168.01			
Consumed: Estimate	0	0.00	48,198	1,415,363.19			
Actual	0	0.00	(48,649)	(1,450,651.63)			
Balance Per G/L 05/31/2016	0	0.00	39,324	1,302,348.70			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	39,434	1,449,849.63			
Consumed	0	0.00	(46,686)	(1,551,543.85)	106.5901	0.0000	106.5901
Balance @ 06/30/2016	0	0.00	32,072	1,200,654.48			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 06/30/2016	0	0.00	32,072	1,200,654.48			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,200,654.48)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,194,990.77			
Total @ 9/30/2013 Avg Price	0	0.00	32,072	1,194,990.77			

Weighted Avg Cost/BBL by Location #DIV/0! 37.4362

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 37.2596

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 05/31/2016	9,208	290,014.99	14,469.41			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(2,063)	(71,449.09)	(2,466.81)			
Actual	1,316	46,829.84	1,633.38			
Consumed: Estimate	1,156	33,946.63	1,936.76			
Actual	(1,991)	(46,781.31)	(3,335.75)			
Balance Per G/L 05/31/2016	<u>7,626</u>	<u>252,561.06</u>	<u>12,236.99</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	4,252	165,469	5,084.29			
Consumed	(4,374)	(145,363.77)	(6,873.30)	33.2336	1.5714	34.8050
Balance @ 06/30/2016	<u>7,504</u>	<u>272,665.96</u>	<u>10,447.97</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>7,504</u>	<u>272,665.96</u>	<u>10,447.97</u>		<u>1.3923</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(272,665.96)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	279,596.24	XXXXXXXXXXXXXXXXXXXX			
Total @ 07/01/2016 Avg Price	<u>7,504</u>	<u>279,596.24</u>	<u>10,447.97</u>			

Weighted Avg Cost/BBL by Location

36.3361

1.3923

Weighted Avg Cost/BBL @ Avg Cost

37.2596

1.3923

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 05/31/2016	39,852.5	1,673,804.0	2,239,758.2	111,231.1			
Less: Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfers in: Estimate	(44,985.3)	(1,889,384.0)	(2,626,958.7)	(120,236.8)			
Actual	46,036.1	1,933,518.0	2,683,213.0	121,337.74			
Consumed: Estimate	48,180.8	2,023,594.0	2,693,495.2	125,872.36			
Actual	(44,269.0)	(1,859,297.0)	(2,387,557.3)	(108,043.0)	53.9330		
Balance Per G/L 05/31/2016	44,815.1	1,882,235	2,601,950.32	130,161.43	58.0597		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	33,439.3	1,404,450.0	2,182,456.5	89,376.5	65.2662		
Consumed	(24,481.5)	(1,028,222.0)	(1,428,207.7)	(68,330.25)	58.3383	2.7911	61.1294
Balance @ 06/30/2016	53,772.9	2,258,463	3,356,199.07	151,207.70	62.4143		
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	53,772.9	2,258,463	3,356,199.07	151,207.70	62.4143		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(3,356,199.1)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	3,455,090.8	xxxxxxxxxxxxxxxx			
Total @ 07/01/2016 Avg Price	53,772.9	2,258,463	3,455,090.83	151,207.70	64.2534		

Weighted Avg Cost/BBL by Location 62.4143 2.8120

Weighted Avg Cost/BBL @ Avg Cost 64.2534 2.8120



**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 05/31/2016	3,732.9	156,783.0	246,571.9	4,414.1			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfers in: Estimate	101.0	4,241.0	6,669.8	120.7			
Actual	(188.8)	(7,930.0)	0.0	0.0			
Consumed: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	(41,608.8)	125.3			
Balance Per G/L 05/31/2016	3,645.1	153,094	211,632.97	4,660.22			
Purchases		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfer in	(209.0)	(8,779.0)	(12,333.5)	(249.9)	59.0054		
Consumed	(242.5)	(10,187)	(14,149.82)	(286.81)	58.3383	1.1825	59.5208
Balance @ 06/30/2016	3,193.5	134,128	185,149.62	4,123.47	57.9766		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 06/30/2016	3,193.5	134,128	185,149.62	4,123.47	57.9766		
Reverse Fuel Balance		XXXXXXXXXXXXXX	(185,149.62)	XXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXX	205,194.60	XXXXXXXXXXXXXX			
Total @ 07/01/2016 Avg Price	3,193.5	134,128	205,194.60	4,123.47	64.2534		

Weighted Avg Cost/BBL by Location 57.9766 1.2912

Weighted Avg Cost/BBL @ Avg Cost 64.2534 1.2912

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 05/31/2016	1367.3	57,426	85,763	845			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Consumed: Estimate	57.4	2410.0	3207.8	39.2			
Actual	-43.1	-1812.0	-8760.4	660.4			
Balance Per G/L 05/31/2016	1381.5	58,024	80,210.80	1,544.70	58.0597		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	0.0000		
Consumed	-8.3	-347.0	-482.0	-5.1	58.3383	0.6181	58.9564
Balance @ 06/30/2016	1,373.3	57,677	79,728.81	1,539.59	58.0580		
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	1,373.3	57,677	79,728.81	1,539.59	58.0580		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX	-79,728.81	XXXXXXXXXXXX		
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX	88,236.68	XXXXXXXXXXXX		
Total @ 07/01/2016 Avg Price	1,373.3	57,677	88,236.68	1,539.59	64.2534		

Weighted Avg Cost/BBL by Location

58.0580 1.1211

Weighted Avg Cost/BBL @ Avg Cost

64.2534 1.1211

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 05/31/2016	2,044.5	85,867	137,045.79	5,710.95			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(190.0)	(7,980)	(11,527.12)	(507.83)			
Actual	0.0	0	0.00	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		0	0.00	0.00			
Actual		(57)	0.00	0.00			
Consumed: Estimate	194.8	8,180	13,401.08	547.30			
Actual	(182.4)	(7,660)	(11,853.06)	(332.31)	64.9907		
Balance Per G/L 05/31/2016	1,865.5	78,350	127,066.69	5,418.11	68.1149		
Purchases	188.7	7,925	12,871.01	504.33	0.0000		
Estimated Purchases	190.0	7,980	12,960.34	507.83			
Transfer in	3.9	165	0.00	10.50	0.00		
Consumed	(163.1)	(6,849)	(11,032.47)	(455.52)	67.6542	2.7934	70.4476
Balance @ 06/30/2016	2,085.0	87,571	141,865.57	5,985.25	68.0403		
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	2,085.0	87,571	141,865.57	5,985.25	68.0403		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(141,865.57)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	142,097.41	xxxxxxxxxxxx			
Total @ 07/01/2016 Avg Price	2,085.0	87,571	142,097.41	5,985.25	68.1515		

Weighted Avg Cost/BBL by Location

68.0403 2.8706

Weighted Avg Cost/BBL @ Avg Cost

68.1515 2.8706

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 05/31/2016	1,437.6	60,378.0	90,941.2	3,271.52			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,837)	(22,876.56)	(839.62)			
Actual		15,837.0	22,876.6	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(10.6)	(446)	0.00	0.00			
Actual	6.1	258	0.00	839.62			
Consumed: Estimate	374.9	15,744	25,792.98	862.96			
Actual	(335.8)	(14,103)	(16,457.72)	(719.36)			
Balance Per G/L 05/31/2016	1,472.2	61,831	100,276.46	3,415.12	68.1149		
ULSD Purchases	188.6	7,920	12,862.88	419.89	68.2122		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	37	0.00	0.00	#DIV/0!		
Consumed	(177.6)	(7,460)	(12,016.67)	(404.21)	67.6542	2.2757	69.9299
Balance @ 06/30/2016	1,484.0	62,328	101,122.67	3,430.80	68.1420		
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	1,484.0	62,328	101,122.67	3,430.80	68.1420		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(101,122.67)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	101,136.76	xxxxxxxxxxxx			
Total @ 07/01/2016 Avg Price	1,484.0	62,328	101,136.76	3,430.80	68.1515		

Weighted Avg Cost/BBL by Location

68.1420 2.3119

Weighted Avg Cost/BBL @ Avg Cost

68.1515 2.3119

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 05/31/2016	1,361.0	57,162.0	98,198.9	2,155.9		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	-	-	-		
Actual	0.0	0	0.00	0.00		
Transfers out: Estimate		x	x	x		
Actual		x	x	x		
Transfers in: Estimate		304	0.00	6.66		
Actual		(342)	0.00	0.00		
Consumed: Estimate	66.0	2,771	4,539.66	101.09		
Actual	(109.7)	(4,606)	(13,071.82)	(791.80)		
<b>Balance Per G/L 05/31/2016</b>	<b>1,316.4</b>	<b>55,289</b>	<b>89,666.76</b>	<b>1,471.89</b>		
ULSD Purchases	189	7,923	12,867.75	173.53	1.624100719	
Estimated Purchases	0	-	-	-		
Transfer in	(4)	(157)	0.00	(3.44)		
Consumed	(55.7)	(2,339)	(3,767.69)	(95.16)	67.6542	1.5841
<b>Balance @ 06/30/2016</b>	<b>1,445.6</b>	<b>60,716</b>	<b>98,766.82</b>	<b>1,546.82</b>		
Inventory From Offsite/Transfers	0.0	0	0.00	0.00		
Est'd Inventory Addition	0.0	0	0.00	0.00		
<b>Fuel Balance @ Avg Price</b>	<b>1,445.6</b>	<b>60,716</b>	<b>98,766.82</b>	<b>1,546.82</b>		
Reverse Fuel Balance	x	x	(98,766.82)	x		
Fuel Balance @ Avg Price	x	x	98,521.04	x		
<b>Total @ 07/01/2016 Avg Price</b>	<b>1,445.6</b>	<b>60,716</b>	<b>98,521.04</b>	<b>1,546.82</b>		

Weighted Avg Cost/BBL by Location

68.3215 1.0700

Weighted Avg Cost/BBL @ Avg Cost

68.1515 1.0700

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
June 2016

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 05/31/2016	81.3	3,413	6,962.71	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	(11.8)	(497)	(717.92)	
Actual	11.8	497	717.92	
Consumed: Estimate	6.6	279	457.08	
Actual	(4.9)	(207)	(1,767.88)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 05/31/2016	82.98	3,485	5,651.91	68.1148
Purchases	11.8	496	805.55	68.2119
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(5.0)	(210)	(338.27)	67.6542
Balance @ 06/30/2016	89.8	3,771	6,119.19	68.1533
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 06/30/2016	89.8	3,771	6,119.19	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(6,119.19)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	6,119.03	xxxx
Total @ 07/01/2016 Avg Price	89.8	3,771	6,119.03	68.1515

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

TYPE OF OIL BURNED

	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
<b>INDUSTRIAL *</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	37.91	2.3881	37.91	2.3881
Ocean Transportation	54.24	3.4169	54.24	3.4169
Storage	17.03	1.0729	17.03	1.0729
Wharfage	3.81	0.2400	3.81	0.2400
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
<b>DIESEL *</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	72.07	4.2228	72.07	4.2228
Ocean Transportation	58.31	3.4169	58.31	3.4169
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.10	0.2400	4.10	0.2400
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	72.07	4.2228	72.07	4.2228
Ocean Transportation	58.31	3.4169	58.31	3.4169
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.10	0.2400	4.10	0.2400
	<u>ULSD</u>			
<b>ULSD **</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax <sup>1</sup>	20.65	1.6226		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		

<sup>1</sup> 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 July 1, 2016

		<u>July 1, 2016</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	9.535	6.560
PGV (22 MW)	- off peak	10.865	5.430
WAILUKU HYDRO	- on peak	9.535	7.240
	.	10.865	5.970
Other: (<100 KW)	Sch Q Rate	9.810	
		<u>July 1, 2016</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		12.881	
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**  
July 1, 2016

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be returned or collected	(\$2,320,900)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$773,633)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$849,074)
5	Estimated MWh Sales (July 1, 2016)	87,117 mwh
6	Adjustment (Line 4 / Line 5)	(0.975) ¢/kwh

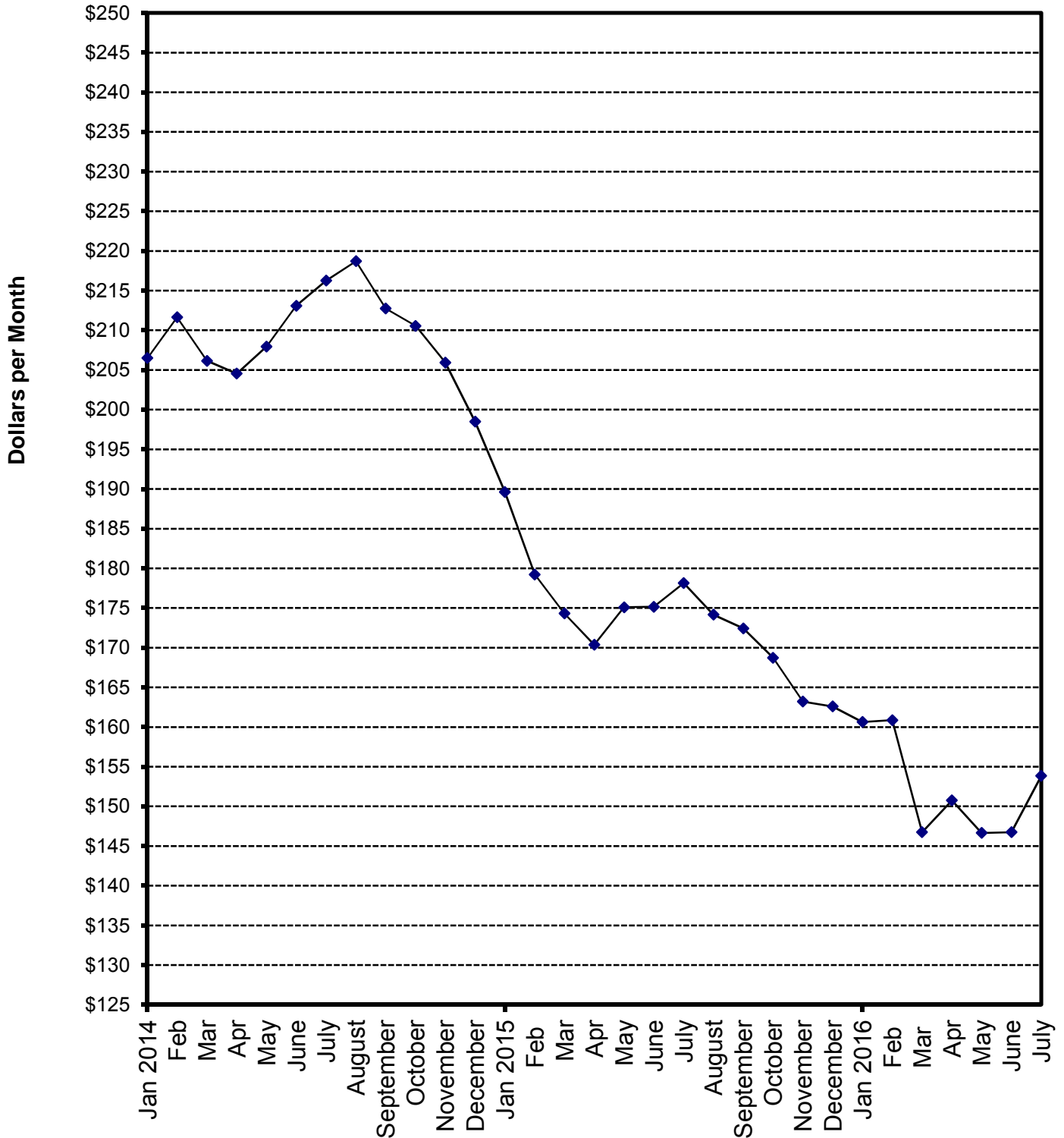
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2016 Cumulative Reconciliation Balance

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	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)		
July					(773,633)		

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 &amp; COMMERCIAL</u>	<u>@ 500 KWH @ 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

**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
<b>04/09/12</b>	<b>FINAL RATE INCREASE (1.28%), DOCKET NO. 2009-0164 (2010 TEST YEAR)</b>	
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
<b>5/1/2016</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
6/1/2016 - 6/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8442 CENTS/KWH
<b>6/1/2016</b>	<b>RBA RATE ADJUSTMENT</b>	<b>1.4241 CENTS/KWH</b>
<b>7/1/2016-7/31/16</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.8909 CENTS/KWH</b>
<b>7/1/2016</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.1300 DOLLARS/MONTH</b>
<b>7/1/2016</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.5865 CENTS/KWH</b>

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

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

	Rate		Charge (\$) at 500 Kwh			
	6/01/16	7/01/16	6/01/16	7/01/16	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel Energy Charge	¢/kwh	16.2487	16.2487	\$81.24	\$81.24	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$62.72	\$62.72	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$29.11	\$29.11	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$154.46	\$154.46	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.4241	1.4241	\$7.12	\$7.12	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.8442	1.8909	\$9.22	\$9.45	\$0.23
<b>PBF Surcharge</b>	¢/kwh	0.4749	0.5865	\$2.37	\$2.93	\$0.56
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Adjustment</b>	¢/kwh	(5.5460)	(4.2480)	-\$27.73	-\$21.24	\$6.49
<b>Green Infrastructure Fee</b>	\$	1.3000	1.1300	\$1.30	\$1.13	-\$0.17
<b>Avg Residential Bill at 500 kwh</b>				\$146.74	\$153.85	
				Increase (Decrease -)	\$7.11	
				% Change	4.85%	

	Rate		Charge (\$) at 600 Kwh			
	6/01/16	7/01/16	6/01/16	7/01/16	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel/Energy Charge	¢/kwh	16.2487	16.2487	\$97.49	\$97.49	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$77.27	\$77.27	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$43.66	\$43.66	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$185.26	\$185.26	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.4241	1.4241	\$8.54	\$8.54	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	1.8442	1.8909	\$11.07	\$11.35	\$0.28
<b>PBF Surcharge</b>	¢/kwh	0.4749	0.5865	\$2.85	\$3.52	\$0.67
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Adjustment</b>	¢/kwh	(5.5460)	(4.2480)	-\$33.28	-\$25.49	\$7.79
<b>Green Infrastructure Fee</b>	\$	1.3000	1.1300	\$1.30	\$1.13	-\$0.17
<b>Avg Residential Bill at 600 kwh</b>				\$175.74	\$184.31	
				Increase (Decrease -)	\$8.57	
				% Change	4.88%	