

# State of Hawaii



## Public Utilities Commission

### The Hawaii Public Utilities Commission Acknowledges Receipt of Your Submittal.

Form:	Hawaii PUC eFile Non-Docketed
Entity:	Hawaii Electric Light Company, Inc.
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JAY IGNACIO, P. E.  
President

October 28, 2015

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 November 2015

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for November 2015 is -2.727 cents per kilowatt-hour ("kWh"), a decrease of 1.056 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$163.20, a decrease of \$5.53 compared to the rates effective October 1, 2015. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$5.28) and the decrease in the Purchased Power Adjustment Clause rate (-\$0.25).

Hawai'i Electric Light's fuel composite cost of generation decreased 93.82 cents per million BTU to 1,139.00 cents per million BTU. The composite cost of distributed generation increased 0.120 cents per kWh to 14.892 cents per kWh. The composite cost of purchased energy decreased 0.303 cents per kWh to 11.519 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 November 1, 2015.

Sincerely,

*/s/ Jay M. Ignacio*

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>10/01/15</u>	<u>11/01/15</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,232.82	1,139.00	(93.820)
Dispersed Generation Energy, ¢/kWh	14.772	14.892	0.120
Purchased Energy, ¢/kWh	11.822	11.519	(0.303)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(1.671)	(2.727)	(1.056)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(1.671)	(2.727)	(1.056)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$168.73	\$163.20	(5.53)
600 KWH Consumption - \$/Bill	\$202.10	\$195.47	(6.63)

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

ENERGY COST ADJUSTMENT (ECA) FILING - November 1, 2015 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	November 1, 2015
2	Supercedes Factors of	October 1, 2015

**GENERATION COMPONENT**

<b>CENTRAL STATION WITH WIND/HYDRO COMPONENT</b>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		775.22			
5	Puna Industrial		805.24			
6	Keahole Diesel		1,347.06			
6a	Keahole ULSD		1,523.16			
7	Waimea ULSD Diesel		1,544.75			
8	Hilo Diesel		1,304.61			
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,516.08			
9	Puna Diesel		1,317.67			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		27.519			
14	Puna Industrial		0.000			
15	Keahole Diesel		61.617			
15a	Keahole ULSD		1.791			
16	Waimea ULSD Diesel		1.759			
17	Hilo Diesel		1.303			
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1.596			
18	Puna Diesel		0.000			
19	Wind		0.000			
20	Hydro		4.415			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,139.00			
22	% Input to System kWh Mix		33.934			
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	21.733	0.003292		
24	Diesel	0.010424	72.243	0.007531		
25	Other	0.012621	6.024	0.000760		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0115830		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			4.47693		
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)			(2.64102)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(2.89852)		
				<b>DG ENERGY COMPONENT</b>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	14.892
				36	% Input to System kWh Mix	0.474
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.07059
				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)	0.06117
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.07163
				<b>SUMMARY OF</b>		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(2.89852)
				46	DG (line 44)	0.07163
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(2.82689)

<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 - November 1, 2015 (Page 2 of 2)

Line	<b>PURCHASED ENERGY COMPONENT</b>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		11.925
49	PGV	On Peak	9.822
50	PGV	Off Peak	9.014
51	PGV - Add'l 5 MW	On Peak	12.300
52	PGV - Add'l 5 MW	Off Peak	12.300
53	PGV - Add'l 8 MW	On Peak	9.380
54	PGV - Add'l 8 MW	Off Peak	6.250
55	Wailuku Hydro	On Peak	9.822
56	Wailuku Hydro	Off Peak	9.014
57	Hawi Renewable Dev.	On Peak	9.822
58	Hawi Renewable Dev.	Off Peak	9.014
59	Tawhiri (Pakini Nui)	On Peak	17.930
60	Tawhiri (Pakini Nui)	Off Peak	14.420
61			
62	Small Hydro (>100 KW)	On Peak	9.822
63	Small Hydro (>100 KW)	Off Peak	9.014
64	Sch Q Hydro (<100 KW)		9.180
65	FIT		18.900
	PURCHASED ENERGY KWH MIX, %		
66	HEP		28.827
67	PGV	On Peak	17.102
68	PGV	Off Peak	10.936
69	PGV - Addt'l	On Peak	3.420
70	PGV - Addt'l	Off Peak	2.450
71	PGV - Add'l 8 MW	On Peak	4.547
72	PGV - Add'l 8 MW	Off Peak	4.827
73	Wailuku Hydro	On Peak	2.754
74	Wailuku Hydro	Off Peak	2.025
75	Hawi Renewable Dev.	On Peak	3.715
76	Hawi Renewable Dev.	Off Peak	1.409
77	Tawhiri (Pakini Nui)	On Peak	10.186
78	Tawhiri (Pakini Nui)	Off Peak	5.988
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)		0.126
83	FIT		1.688
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.519
85	% Input to System kWh Mix		65.592
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		7.55554
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))		0.36040
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		0.42204

Line	<b>SYSTEM COMPOSITE</b>	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93)) (2.40485)	
95	Not Used 0.000	
96	Not Used 0.000	
97	ECA Reconciliation Adjustment (0.322)	
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97)) (2.727)	

**Hawaii Electric Light Company, Inc.**  
FUEL OIL INVENTORY PRICES FOR November 1, 2015

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	48.8390	48.8390
Land Transportation Cost - \$/BBL	--	1.8909
Industrial Costs For Filing - \$/BBL	48.8390	50.7299
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	<u>775.22</u>	<u>805.24</u>

**DIESEL FUEL COSTS:**

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	76.0877	76.0877	76.0877
Land Transportation Cost - \$/BBL	2.8502	1.1278	0.3625
Diesel Costs For Filing - \$/BBL	78.9379	77.2155	76.4502
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	<u>1,347.06</u>	<u>1,317.67</u>	<u>1,304.61</u>

**ULSD FUEL COSTS:**

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	86.1372	86.1372	86.1372	86.1372
Land Transportation Cost - \$/BBL	1.1401	2.3767	0.7342	-
ULSD Costs For Filing - \$/BBL	87.2773	88.5139	86.8714	86.1372
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	<u>1,523.16</u>	<u>1,544.75</u>	<u>1,516.08</u>	<u>1,503.27</u>

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	736.4747
\$/BBI Inv Cost:	<u>86.1372</u>
Fuel \$ (Prod Sim Consumption x Unit Cost)	63,437.89
Net kWh (from Prod Sim)	<u>426,000</u>
cents/kWh:	<u>14.892</u>

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 09/30/2015	3,761	0.00	35,541	1,957,117.36			
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	(18,516)	(928,503.04)			
Actual	0	0.00	19,797	1,000,835.12			
Consumed: Estimate	0	0.00	21,650	1,255,502.99			
Actual	0	0.00	(23,046)	(1,336,458.28)			
Balance Per G/L 09/30/2015	<u>3,761</u>	<u>0.00</u>	<u>35,426</u>	<u>1,948,494.15</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	24,107	1,128,590.52			
Consumed	<u>0</u>	<u>0.00</u>	<u>(34,111)</u>	<u>(1,868,515.30)</u>	106.5901	0.0000	106.5901
Balance @ 10/31/2015	3,761	0.00	25,422	1,208,569.37			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 10/31/2015	<u>3,761</u>	<u>0.00</u>	<u>25,422</u>	<u>1,208,569.37</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(1,208,569.37)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	1,241,584.33			
Total @ 9/30/2013 Avg Price	<u>3,761</u>	<u>0.00</u>	<u>25,422</u>	<u>1,241,584.33</u>			

Weighted Avg Cost/BBL by Location 0.0000 47.5403

Weighted Avg Cost/BBL @ Avg Cost 0.0000 48.8390

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 09/30/2015	8,565	465,144.70	11,057.12			
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	(6,301)	(340,671.29)	(7,534.36)			
Actual	5,881	317,686.20	7,272.49			
Consumed: Estimate	1,713	99,338.41	2,627.74			
Actual	(1,256)	(72,836.57)	2,925.34			
Balance Per G/L 09/30/2015	8,602	468,661.45	16,348.33			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	119	6,627	142.29			
Consumed	0	0.00	0.00	54.7775	1.2910	56.0685
Balance @ 10/31/2015	8,721	475,288.50	16,490.62			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	8,721	475,288.50	16,490.62		1.8909	
Reverse Fuel Balance	XXXXXXXXXXXX	(475,288.50)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	425,924.67	XXXXXXXXXXXX			
Total @ 10/31/2015 Avg Price	8,721	425,924.67	16,490.62			

Weighted Avg Cost/BBL by Location

54.4993

1.8909

Weighted Avg Cost/BBL @ Avg Cost

48.8390

1.8909



**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 09/30/2015	51,847.5	2,177,596.0	4,251,312.9	144,911.3			
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		xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfers in: Estimate	(42,296.0)	(1,776,434.0)	(3,498,185.4)	(122,671.2)			
Actual	43,793.8	1,839,341.0	3,588,598.9	124,587.15			
Consumed: Estimate	44,304.8	1,860,803.0	3,852,761.6	121,935.76			
Actual	(43,080.4)	(1,809,375.0)	(3,746,280.8)	(118,565.8)	86.9603		
Balance Per G/L 09/30/2015	54,569.8	2,291,931	4,448,207.23	150,197.19	81.5141		
Purchases	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx			
Transfer in	52,599.7	2,209,186.0	3,961,554.4	152,554.8	75.3152		
Consumed	(48,957.0)	(2,056,192.0)	(4,036,960.9)	(136,834.68)	82.4594	2.7950	85.2544
Balance @ 10/31/2015	58,212.5	2,444,925	4,372,800.72	165,917.32	75.1179		
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	58,212.5	2,444,925	4,372,800.72	165,917.32	75.1179		
Reverse Fuel Balance	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	(4,372,800.7)	xxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxxxx	xxxxxxxxxxxxxx	4,429,252.8	xxxxxxxxxxxxxx			
Total @ 10/31/2015 Avg Price	58,212.5	2,444,925	4,429,252.78	165,917.32	76.0877		

Weighted Avg Cost/BBL by Location 75.1179 2.8502

Weighted Avg Cost/BBL @ Avg Cost 76.0877 2.8502

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 09/30/2015	3,979.2	167,127.0	368,937.1	4,487.8			
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	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Consumed: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Balance Per G/L 09/30/2015	3,979.2	167,127	368,937.06	4,487.75			
Purchases		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXX	XXXXXXXXXXXXXX	XXXXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	#DIV/0!		
Consumed	0.0	0	0.00	0.00	82.4594	1.1278	83.5872
Balance @ 10/31/2015	3,979.2	167,127	368,937.06	4,487.75	92.7161		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 10/31/2015	3,979.2	167,127	368,937.06	4,487.75	92.7161		
Reverse Fuel Balance		XXXXXXXXXXXXXX	(368,937.06)	XXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXX	302,769.10	XXXXXXXXXXXXXX			
Total @ 10/31/2015 Avg Price	3,979.2	167,127	302,769.10	4,487.75	76.0877		

Weighted Avg Cost/BBL by Location

92.7161 1.1278

Weighted Avg Cost/BBL @ Avg Cost

76.0877 1.1278

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 09/30/2015	1396.7	58,660	126,183	198			
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	173.0	7267.0	14318.8	0.0			
Consumed: Estimate	148.6	6243.0	12926.0	83.1			
Actual	-139.8	-5873.0	-12160.0	-78.1			
Balance Per G/L 09/30/2015	1578.5	66,297	141,268.16	202.61	89.4952		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	-6.3	-266.0	0.0	-6.3	0.0000		
Consumed	-23.6	-993.0	-1949.6	-3.3	82.4594	0.1415	82.6009
Balance @ 10/31/2015	1,548.5	65,038	139,318.58	192.94	89.9686		
Inven From Offsite/Transfers	579.5	24341.0	42885.6	578.5			
Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Fuel Balance @ Avg Price	2,128.1	89,379	182,204.23	771.45	85.6194		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -182,204.23	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 161,919.97	XXXXXXXXXXXX			
Total @ 10/31/2015 Avg Price	2,128.1	89,379	161,919.97	771.45	76.0877		

Weighted Avg Cost/BBL by Location

85.6194 0.3625

Weighted Avg Cost/BBL @ Avg Cost

76.0877 0.3625

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 09/30/2015	2,123.4	89,182	192,726.13	3,930.46			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(377.9)	(15,871)	(28,575.72)	(1,095.97)			
Actual	187.9	7,891	14,207.74	0.00			
Transfers out: Estimate		xxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate		(206)	0.00	(14.23)			
Actual		170	0.00	544.91			
Consumed: Estimate	260.5	10,939	22,452.27	699.50			
Actual	(227.6)	(9,560)	(19,621.88)	(2,367.79)	86.2049		
Balance Per G/L 09/30/2015	1,965.4	82,545	181,188.54	1,696.88	92.1912		
Purchases	188.4	7,911	13,390.16	546.29	0.0000		
Estimated Purchases	190.0	7,980	13,506.95	551.06			
Transfer in	0.5	20	0.00	1.38	0.00		
Consumed	(173.0)	(7,268)	(15,710.49)	(320.31)	90.7871	1.8510	92.6381
Balance @ 10/31/2015	2,171.1	91,188	192,375.16	2,475.30	88.6055		
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	2,171.1	91,188	192,375.16	2,475.30	88.6055		
Reverse Fuel Balance	xxxxxxxxxxxxx	xxxxxxxxxxxxx	(192,375.16)	xxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxxx	xxxxxxxxxxxxx	187,016.22	xxxxxxxxxxxxx			
Total @ 10/31/2015 Avg Price	2,171.1	91,188	187,016.22	2,475.30	86.1372		

Weighted Avg Cost/BBL by Location

88.6055 1.1401

Weighted Avg Cost/BBL @ Avg Cost

86.1372 1.1401

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 09/30/2015	1,451.7	60,971.0	129,617.6	3,386.40			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,807)	(28,460.50)	(909.35)			
Actual		15,807.0	28,460.5	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(3.5)	(145)	0.00	0.00			
Actual	(8.9)	(374)	0.00	909.35			
Consumed: Estimate	341.5	14,345	29,443.08	817.15			
Actual	(287.0)	(12,055)	(24,742.86)	(686.70)			
Balance Per G/L 09/30/2015	1,493.9	62,742	134,317.86	3,516.85	89.9135		
ULSD Purchases	188.4	7,912	13,391.85	455.17	71.0892		
Estimated Purchases	190.0	7,980	13,506.95	459.08			
Transfer in	xxxxxxxxxxxx	423	0.00	0.00	#DIV/0!		
Consumed	(451.5)	(18,964)	(40,992.54)	(1,053.27)	90.7871	2.3327	93.1198
Balance @ 10/31/2015	1,430.8	60,093	120,224.12	3,377.82	84.0266		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	1,255.5	52,731	0.00	3,033.54			
Fuel Balance @ Avg Price	2,686.3	112,824	120,224.12	6,411.36	44.7548		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(162,629.23)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	172,877.41	xxxxxxxxxxxx			
Total @ 10/31/2015 Avg Price	2,686.3	112,824	130,472.30	6,411.36	48.5698		

Weighted Avg Cost/BBL by Location

44.7548 2.3867

Weighted Avg Cost/BBL @ Avg Cost

48.5698 2.3867

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 09/30/2015	1,569.2	65,905.0	142,942.9	843.2		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(321.0)	(13,481)	(24,272.54)	(320.40)		
Actual	321.0	13,481	24,272.54	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		603	0.00	14.33		
Actual		(870)	0.00	492.09		
Consumed: Estimate	153.5	6,449	13,236.56	113.73		
Actual	(112.6)	(4,729)	(9,706.26)	(84.85)		
Balance Per G/L 09/30/2015	1,603.8	67,358	146,473.19	1,058.08		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	(1)	(38)	0.00	(0.90)		
Consumed	(75.4)	(3,166)	(6,843.62)	(47.73)	90.7871	0.5373
Balance @ 10/31/2015	1,527.5	64,154	139,629.57	1,009.45		
Inventory From Offsite/Transfers	0.0	0	0.00	0.00		
Est'd Inventory Addition	424.5	17,830	31,241.81	423.76		
Fuel Balance @ Avg Price	1,952.0	81,984	170,871.38	1,433.21		
Reverse Fuel Balance	x	x	(170,871.38)	x		
Fuel Balance @ Avg Price	x	x	168,139.86	x		
Total @ 10/31/2015 Avg Price	1,952.0	81,984	168,139.86	1,433.21		
Weighted Avg Cost/BBL by Location			87.5366	0.7342		
Weighted Avg Cost/BBL @ Avg Cost			86.1372	0.7342		

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
October 2015

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 09/30/2015	94.5	3,971	10,327.77	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	5.2	218	447.44	
Actual	(4.5)	(190)	(389.97)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 09/30/2015	95.21	3,999	10,385.24	109.0723
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(5.6)	(235)	(507.98)	90.7871
Balance @ 10/31/2015	89.6	3,764	9,877.26	110.2139
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 10/31/2015	89.6	3,764	9,877.26	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(9,877.26)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	7,719.54	xxxx
Total @ 10/31/2015 Avg Price	89.6	3,764	7,719.54	86.1372

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**CONTRACT PRICES EFFECTIVE October 1, 2015**

TYPE OF OIL BURNED

	<u>Hilo 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>	46.13	2.9055	46.13	2.9055
Ocean Transportation	53.47	3.3684	53.47	3.3684
Storage	17.20	1.0833	17.20	1.0833
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>	81.81	4.9661	84.75	4.9661
Ocean Transportation	57.48	3.3684	57.48	3.3684
Storage	18.49	1.0833	18.49	1.0833
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>	81.81	4.9661	81.81	4.9661
Ocean Transportation	57.48	3.3684	57.48	3.3684
Storage	18.49	1.0833	18.49	1.0833
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>	33.71	1.9320		
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 November 1, 2015

		November 1, 2015 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	9.822	6.560
PGV (22 MW)	- off peak	9.014	5.430
WAILUKU HYDRO	- on peak	9.822	7.240
	.	9.014	5.970
Other: (<100 KW)	Sch Q Rate	9.180	

		November 1, 2015 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		11.925	
PGV Addtl 5 MW	- on peak	12.3000	0.0000
	- off peak	12.3000	0.0000
PGV Addtl 8 MW	- on peak	9.3800	0.0000
	- off peak	6.2500	0.0000

**Hawaii Electric Light Company, Inc.**  
**Energy Cost Reconciliation Adjustment**  
November 1, 2015

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be returned or collected	(\$791,200)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$263,733)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$289,451)
5	Estimated MWh Sales (November 1, 2015)	89,912 mwh
6	Adjustment (Line 4 / Line 5)	(0.322) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC.  
2015 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)

<u>LINE</u>	<u>DESCRIPTION</u>	Info Only September 2015 YTD Total <u>No Deadband</u>	collectn by company*	Basis for Recon September 2015 YTD Total <u>Deadband</u>	Collection or Refund by <u>Company</u>
ACTUAL COSTS:					
1	Generation	\$56,823.9		\$56,823.9	
2	Distributed Generation	\$10.3		\$10.3	
3	Purch Power	\$58,507.8		\$58,507.8	
4	TOTAL	<u>\$115,342.0</u>		<u>\$115,342.0</u>	
FUEL FILING COST (1)					
5	Generation	\$56,850.4		\$57,089.7	
6	Distributed Generation	\$10.3		\$10.3	
7	Purch Power	\$58,507.8		\$58,507.8	
8	TOTAL	<u>\$115,368.5</u>		<u>\$115,607.8</u>	
BASE FUEL COST					
9	Generation	\$52,651.4		\$52,651.4	
10	Distributed Generation	\$5.3		\$5.3	
11	Purch Power	\$64,012.3		\$64,012.3	
12	TOTAL	<u>\$116,669.0</u>		<u>\$116,669.0</u>	
13	FUEL-BASE COST (Line 8-12)	-\$1,300.6		-\$1,061.2	
14	ACTUAL FOA LESS TAX	-\$821.0		-\$821.0	
15	Less: FOA reconciliation adj for prior year	-\$410.3		-\$410.3	
16	ADJUSTED FOA LESS TAX	<u>-\$410.7</u>		<u>-\$410.7</u>	
17	FOA-(FUEL-BASE) (Line 16-13)	\$889.9 over		\$650.5 over	
ADJUSTMENTS:					
18	Current year FOA accrual reversal	-\$1,399.9		-\$1,399.9	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	<u>\$0.0</u>		<u>\$0.0</u>	
21	QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	<u><u>-\$510.0</u></u> under		<u><u>-\$749.4</u></u> under	
22	Second Quarter FOA reconciliation			-1,540.6 under	
23	FOA Reconciliation to be Returned or Collected			791.2 over	

\* Over means an over-collection by the Company.  
Under means an under-collection by the Company.

**Hawai'i Electric Light Company  
DEADBAND CALCULATION  
2015**

Jan 1 - Sep, 2015  
YTD

	Notes	
<b><u>Industrial</u></b>		
Industrial Efficiency Factor (per D&O), BTU/kWh*	f	15,148
Industrial Deadband Definition, +/- BTU/kWh	d	100
Industrial Portion of Recorded Sales, kWh	a	119,912,807
Industrial Consumption (Recorded), MMBTU	b	1,733,536
Industrial Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	14,457
Lower limit of Industrial Deadband, BTU/kWh	e= f-d	15,048
Higher limit of Industrial Deadband, BTU/kWh	g=f+d	15,248
Industrial Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>15,048</b>
<b><u>Diesel</u></b>		
Diesel Efficiency Factor (per D&O), BTU/kWh*	f	10,424
Diesel Deadband Definition, +/- BTU/kWh	d	100
Diesel Portion of Recorded Sales, MWh	a	223,192,432
Diesel Consumption (Recorded), MMBTU	b	2,374,363
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	10,638
Lower limit of Diesel Deadband, BTU/kWh	e= f-d	10,324
Higher limit of Diesel Deadband, BTU/kWh	g=f+d	10,524
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>10,524</b>
<b><u>Biodiesel</u></b>		
Biodiesel Efficiency Factor (per D&O), BTU/kWh*	f	0
Biodiesel Deadband Definition, +/- BTU/kWh	d	100
Biodiesel Portion of Recorded Sales, MWh	a	0
Biodiesel Consumption (Recorded), MMBTU	b	0
Biodiesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	0
Lower limit of Biodiesel Deadband, BTU/kWh	e= f-d	-100
Higher limit of Biodiesel Deadband, BTU/kWh	g=f+d	100
Biodiesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>0</b>
<b><u>Hydro</u></b>		
Hydro Efficiency Factor (per D&O), BTU/kWh*	f	12,621
Hydro Deadband Definition, +/- BTU/kWh	d	100
Hydro Portion of Recorded Sales, MWh	a	14,117,468
Hydro Consumption (Recorded), MMBTU	b	168,481
Hydro Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	11,934
Lower limit of Hydro Deadband, BTU/kWh	e= f-d	12,521
Higher limit of Hydro Deadband, BTU/kWh	g=f+d	12,721
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>12,521</b>

\* YTD Efficiency Factor (per D&O) is actual YTD & projected to the end of the year weighted by calendar days in the year.

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST**  
**WITHOUT and WITH DEADBAND**  
**2015**

	<b>Without Deadband</b>	<b>With Deadband</b>
	<u>Jan 1 - Sep 30</u>	<u>Jan 1 - Sep 30</u>
<b><u>INDUSTRIAL FUEL FILING COST</u></b>		
Industrial Portion of Recorded Sales , kWh	119,912,807	119,912,807
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	1,816,439	1,804,448
\$/mmbtu	<u>\$10.4025</u>	<u>\$10.4025</u>
<b>TOTAL INDUSTRIAL \$000s TO BE RECOVERED</b>	<b>\$18,895.544</b>	<b>\$18,770.804</b>
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, kWh	223,192,432	223,192,432
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010524
Mmbtu adjusted for Sales Efficiency Factor	2,326,558	2,348,877
\$/mmbtu	<u>\$16.3137</u>	<u>\$16.3137</u>
<b>TOTAL DIESEL \$000s TO BE RECOVERED</b>	<b>\$37,954.821</b>	<b>\$38,318.931</b>
<b><u>HYDRO FUEL FILING COST</u></b>		
Hydro Portion of Recorded Sales , kWh	14,117,468	14,117,468
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012521
Mmbtu adjusted for Sales Efficiency Factor	178,177	176,765
\$/mmbtu	<u>\$0.0000</u>	<u>\$0.0000</u>
<b>TOTAL HYDRO \$000s TO BE RECOVERED</b>	<b>\$0.000</b>	<b>\$0.000</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s</b>	<b>\$56,850.4</b>	<b>\$57,089.7</b>
<b><u>CALCULATION OF GENERATION BASE FUEL COST</u></b>		
<b>TOTAL GENERATION BASE FUEL COST, \$000s</b>	<b>\$52,651.4</b>	<b>\$52,651.4</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s YTD</b>	<b>\$56,850.4</b>	<b>\$57,089.7</b>
<b>TOTAL GENERATION BASE FUEL COST YTD</b>	<b>\$52,651.4</b>	<b>\$52,651.4</b>

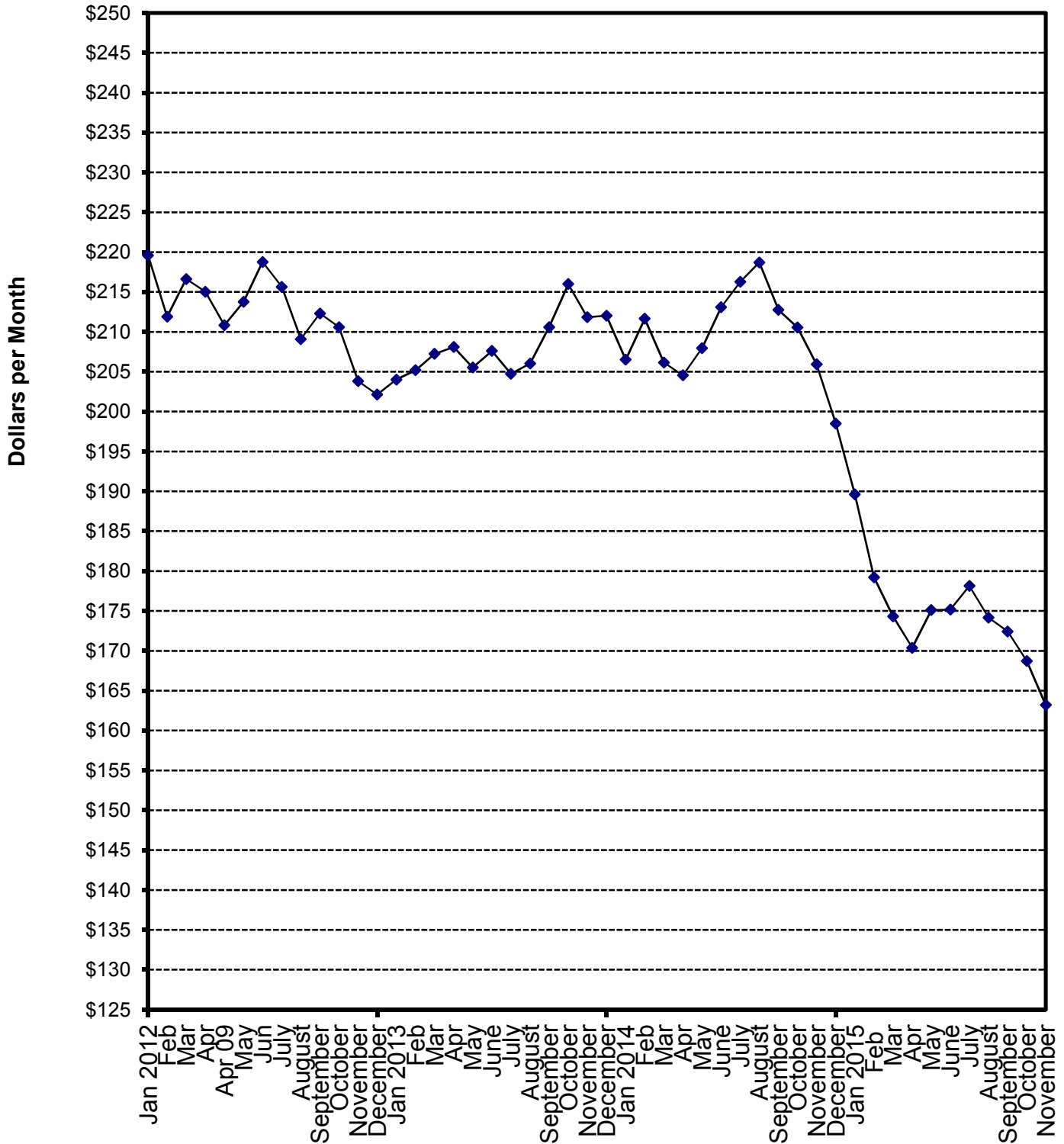
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2015 Cumulative Reconciliation Balance

<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	(373,000)	[3]	8,070	(381,070)	124,333	125,960	(208,168)
December 14					124,333	124,559	(83,609)
January 15					124,333	117,173	33,564
February	534,600	[4]	5,320	529,280	(178,200)	(180,037)	382,807
March					(178,200)	(176,746)	206,061
April					(178,200)	(179,220)	26,841
May	(1,118,800)	[1]	(7,543)	(1,111,257)	372,933	373,805	(710,611)
June					372,933	385,321	(325,290)
July					372,933	400,805	75,515
August	(421,800)	[2]	12,240	(434,040)	140,600	148,649	(209,876)
September					140,600	149,054	(60,822)
October					140,600		
November	791,200	[3]	44,375	746,825	(263,733)		
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</u>		
	<u>CENTS / KWH</u>	<u>RESIDENTIAL &amp; COMMERCIAL @ 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



**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	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	PURCHASED POWER ADJUSTMENT CLAUSE	2.4237 CENTS/KWH
01/01/13	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7850 CENTS/KWH
02/01/13	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	RBA RATE ADJUSTMENT	0.4383 CENTS/KWH
7/1/2013	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	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	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
<b>5/1/2015</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
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
<b>6/8/2015</b>	<b>RBA RATE ADJUSTMENT</b>	<b>1.3971 CENTS/KWH</b>
7/1/2015-7/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3157 CENTS/KWH
<b>7/1/2015</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.4749 CENTS/KWH</b>
<b>7/1/2015</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.4200 DOLLARS/MONTH</b>
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
<b>11/1/2015-11/30/2015</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>2.3204 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		
	10/01/15	11/01/15	10/01/15	11/01/15	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 1.3971	1.3971	\$6.99	\$6.99	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh 2.3699	2.3204	\$11.85	\$11.60	-\$0.25
<b>PBF Surcharge</b>	¢/kwh 0.4749	0.4749	\$2.37	\$2.37	\$0.00
<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 (1.6710)	(2.7270)	-\$8.36	-\$13.64	-\$5.28
<b>Green Infrastructure Fee</b>	\$ 1.4200	1.4200	\$1.42	\$1.42	\$0.00
<b>Avg Residential Bill at 500 kwh</b>			\$168.73	\$163.20	
			Increase (Decrease -)		-\$5.53
			% Change		-3.28%

	Rate		Charge (\$) at 600 Kwh		
	10/01/15	11/01/15	10/01/15	11/01/15	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 1.3971	1.3971	\$8.38	\$8.38	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh 2.3699	2.3204	\$14.22	\$13.92	-\$0.30
<b>PBF Surcharge</b>	¢/kwh 0.4749	0.4749	\$2.85	\$2.85	\$0.00
<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 (1.6710)	(2.7270)	-\$10.03	-\$16.36	-\$6.33
<b>Green Infrastructure Fee</b>	\$ 1.4200	1.4200	\$1.42	\$1.42	\$0.00
<b>Avg Residential Bill at 600 kwh</b>			\$202.10	\$195.47	
			Increase (Decrease -)		-\$6.63
			% Change		-3.28%