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JAY IGNACIO, P. E.
President

2015 NOV 25 P. 3: 55

November 25, 2015

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 December 2015

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for December 2015 is -2.859 cents per kilowatt-hour ("kWh"), a decrease of 0.132 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$162.59, a decrease of \$0.61 compared to the rates effective November 1, 2015. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$0.66) and the increase in the Purchased Power Adjustment Clause rate (+\$0.05).

Hawai'i Electric Light's fuel composite cost of generation decreased 33.75 cents per million BTU to 1,105.25 cents per million BTU. The composite cost of distributed generation decreased 1.275 cents per kWh to 13.617 cents per kWh. The composite cost of purchased energy increased 0.084 cents per kWh to 11.603 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 December 1, 2015.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>11/01/15</u>	<u>12/01/15</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,139.00	1,105.25	(33.750)
Dispersed Generation Energy, ¢/kWh	14.892	13.617	(1.275)
Purchased Energy, ¢/kWh	11.519	11.603	0.084
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(2.727)	(2.859)	(0.132)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(2.727)	(2.859)	(0.132)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$163.20	\$162.59	(0.61)
600 KWH Consumption - \$/Bill	\$195.47	\$194.74	(0.73)

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

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

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

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		727.89			
5	Puna Industrial		757.95			
6	Keahole Diesel		1,333.65			
6a	Keahole ULSD		1,553.29			
7	Waimea ULSD Diesel		1,547.25			
8	Hilo Diesel		1,291.82			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,511.81			
9	Puna Diesel		1,305.02			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		25.533			
14	Puna Industrial		0.000			
15	Keahole Diesel		66.852			
15a	Keahole ULSD		0.592			
16	Waimea ULSD Diesel		0.405			
17	Hilo Diesel		0.125			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.280			
18	Puna Diesel		0.499			
19	Wind		0.000			
20	Hydro		5.714			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,105.25			
22	% Input to System kWh Mix		34.992			
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	19.277	0.002920		
24	Diesel	0.010424	75.009	0.007819		
25	Other	0.012621	5.714	0.000721		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0114600		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			4.43214		
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)			(2.68581)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(2.94768)		
				DG ENERGY COMPONENT		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	13.617
				36	% Input to System kWh Mix	0.150
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.02042
				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)	0.01100
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.01288
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(2.94768)
				46	DG (line 44)	0.01288
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(2.93480)

¹ Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		12.281
49	PGV	On Peak	9.873
50	PGV	Off Peak	9.046
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	9.873
56	Wailuku Hydro	Off Peak	9.046
57	Hawi Renewable Dev.	On Peak	9.873
58	Hawi Renewable Dev.	Off Peak	9.046
59	Tawhiri (Pakini Nui)	On Peak	17.690
60	Tawhiri (Pakini Nui)	Off Peak	14.230
61			
62	Small Hydro (>100 KW)	On Peak	9.873
63	Small Hydro (>100 KW)	Off Peak	9.046
64	Sch Q Hydro (<100 KW)		9.220
65	FIT		18.900
	PURCHASED ENERGY KWH MIX, %		
66	HEP		30.994
67	PGV	On Peak	17.203
68	PGV	Off Peak	10.924
69	PGV - Addt'l	On Peak	3.442
70	PGV - Addt'l	Off Peak	2.454
71	PGV - Add'l 8 MW	On Peak	4.506
72	PGV - Add'l 8 MW	Off Peak	4.895
73	Wailuku Hydro	On Peak	2.455
74	Wailuku Hydro	Off Peak	1.704
75	Hawi Renewable Dev.	On Peak	2.849
76	Hawi Renewable Dev.	Off Peak	1.301
77	Tawhiri (Pakini Nui)	On Peak	9.194
78	Tawhiri (Pakini Nui)	Off Peak	5.971
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)		0.138
83	FIT		1.970
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.603
85	% Input to System kWh Mix		64.858
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		7.52547
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))		0.33033
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		0.38683

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93)) (2.54797)	
95	Not Used 0.000	
96	Not Used 0.000	
97	ECA Reconciliation Adjustment (0.311)	
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97)) (2.859)	

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	45.8571	45.8571
Land Transportation Cost - \$/BBL	--	1.8937
Industrial Costs For Filing - \$/BBL	45.8571	47.7507
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	<u>727.89</u>	<u>757.95</u>

DIESEL FUEL COSTS:

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	75.3461	75.3461	75.3461
Land Transportation Cost - \$/BBL	2.8057	1.1279	0.3542
Diesel Costs For Filing - \$/BBL	78.1518	76.4741	75.7004
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	<u>1,333.65</u>	<u>1,305.02</u>	<u>1,291.82</u>

ULSD FUEL COSTS:

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	86.2812	86.2812	86.2812	86.2812
Land Transportation Cost - \$/BBL	2.7221	2.3761	0.3455	-
ULSD Costs For Filing - \$/BBL	89.0033	88.6573	86.6267	86.2812
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	<u>1,553.29</u>	<u>1,547.25</u>	<u>1,511.81</u>	<u>1,505.78</u>

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	220.9424
\$/BBI Inv Cost:	86.2812
Fuel \$ (Prod Sim Consumption x Unit Cost)	19,063.17
Net kWh (from Prod Sim)	140,000
cents/kWh:	<u>13.617</u>

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 10/31/2015	3,761	0.00	25,422	1,208,569.37			
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	(24,107)	(1,128,590.52)			
Actual	0	0.00	24,596	1,156,832.59			
Consumed: Estimate	0	0.00	34,111	1,868,515.30			
Actual	0	0.00	(34,189)	(1,847,365.05)			
Balance Per G/L 10/31/2015	3,761	0.00	25,833	1,257,961.69			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	27,288	1,279,240.96			
Consumed	0	0.00	(34,154)	(1,663,299.80)	106.5901	0.0000	106.5901
Balance @ 11/30/2015	3,761	0.00	18,967	873,902.85			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	1,915	75,331.22			
Fuel Balance @ 11/30/2015	<u>3,761</u>	<u>0.00</u>	<u>20,882</u>	<u>949,234.06</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(949,234.06)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	957,587.67			
Total @ 9/30/2013 Avg Price	<u>3,761</u>	<u>0.00</u>	<u>20,882</u>	<u>957,587.67</u>			

Weighted Avg Cost/BBL by Location 0.0000 45.4570

Weighted Avg Cost/BBL @ Avg Cost 0.0000 45.8571

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 10/31/2015	8,721	475,288.50	16,490.62			
Less: Est'd Inventory Addition	0	0.00	0.00			
Purchases: Estimate	xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers out: Estimate	xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Actual	xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfers in: Estimate	(119)	(6,627.05)	(142.29)			
Actual	119	6,667.85	166.21			
Consumed: Estimate	0	0.00	0.00			
Actual	0	(50,652.19)	0.00			
Balance Per G/L 10/31/2015	<u>8,721</u>	<u>424,677.11</u>	<u>16,514.54</u>			
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0	0.00			
Consumed	0	<u>0.00</u>	0.00	48.7000	1.8900	50.5900
Balance @ 11/30/2015	8,721	<u>424,677.11</u>	16,514.54			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>8,721</u>	<u>424,677.11</u>	<u>16,514.54</u>		<u>1.8937</u>	
Reverse Fuel Balance	xxxxxxxxxxxx	(424,677.11)	xxxxxxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	399,919.65	xxxxxxxxxxxxxxxxxxxx			
Total @ 11/30/2015 Avg Price	<u>8,721</u>	<u>399,919.65</u>	<u>16,514.54</u>			

Weighted Avg Cost/BBL by Location

48.6959

1.8937

Weighted Avg Cost/BBL @ Avg Cost

45.8571

1.8937

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 10/31/2015	58,212.5	2,444,925.0	4,372,800.7	165,917.3			
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		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfers in: Estimate	(52,599.7)	(2,209,186.0)	(3,961,554.4)	(152,554.8)			
Actual	48,178.5	2,023,496.0	3,541,279.9	136,550.41			
Consumed: Estimate	48,957.0	2,056,192.0	4,036,960.9	136,834.68			
Actual	(44,733.8)	(1,878,821.0)	(3,625,071.5)	(131,351.3)	81.0365		
Balance Per G/L 10/31/2015	58,014.4	2,436,606	4,364,415.58	155,396.35	75.2298		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	31,610.3	1,327,632.0	2,360,527.5	91,679.3	74.6759		
Consumed	(34,883.0)	(1,465,087.0)	(2,624,245.0)	(93,486.50)	75.2299	2.6800	77.9099
Balance @ 11/30/2015	54,741.7	2,299,151	4,100,698.15	153,589.16	74.9100		
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	54,741.7	2,299,151	4,100,698.15	153,589.16	74.9100		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(4,100,698.1)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	4,124,573.9	xxxxxxxxxxxxxxxx			
Total @ 11/30/2015 Avg Price	54,741.7	2,299,151	4,124,573.89	153,589.16	75.3461		

Weighted Avg Cost/BBL by Location 74.9100 2.8057

Weighted Avg Cost/BBL @ Avg Cost 75.3461 2.8057

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 10/31/2015	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		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
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	(69,581.5)	0.0			
Balance Per G/L 10/31/2015	3,979.2	167,127	299,355.61	4,487.75			
Purchases		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	187.5	7,875.0	14,402.7	212.1	76.8143		
Consumed	0.0	0	0.00	0.00	75.2299	1.1300	76.3599
Balance @ 11/30/2015	4,166.7	175,002	313,758.29	4,699.81	75.3011		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 11/30/2015	4,166.7	175,002	313,758.29	4,699.81	75.3011		
Reverse Fuel Balance		xxxxxxxxxxxx	(313,758.29)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx	313,945.75	xxxxxxxxxxxx			
Total @ 11/30/2015 Avg Price	4,166.7	175,002	313,945.75	4,699.81	75.3461		

Weighted Avg Cost/BBL by Location 75.3011 1.1279

Weighted Avg Cost/BBL @ Avg Cost 75.3461 1.1279

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 10/31/2015	2128.1	89,379	182,204	771			
Less: Est'd Inven Addition	-579.5	-24,341	-42,886	-579			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	6.3	266.0	0.0	6.3			
Actual	-6.3	-266.0	0.0	0.0			
Consumed: Estimate	23.6	993.0	1949.6	3.4			
Actual	-80.9	-3398.0	-29080.8	325.4			
Balance Per G/L 10/31/2015	1491.3	62,633	112,187.38	528.04	75.2298		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	0.0000		
Consumed	-55.6	-2337.0	-4186.0	-19.5	75.2299	0.3500	75.5799
Balance @ 11/30/2015	1,435.6	60,296	108,001.38	508.57	75.2298		
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	1,435.6	60,296	108,001.38	508.57	75.2298		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -108,001.38	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 108,168.32	XXXXXXXXXXXX			
Total @ 11/30/2015 Avg Price	1,435.6	60,296	108,168.32	508.57	75.3461		

Weighted Avg Cost/BBL by Location

75.2298 0.3542

Weighted Avg Cost/BBL @ Avg Cost

75.3461 0.3542

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 10/31/2015	2,171.1	91,188	192,375.16	2,475.30			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(378.4)	(15,891)	(26,897.11)	(1,097.35)			
Actual	188.4	7,911	13,390.16	0.00			
Transfers out: Estimate		xxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxx	xxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate		(20)	0.00	(1.38)			
Actual		76	0.00	546.29			
Consumed: Estimate	173.0	7,268	15,710.49	320.31			
Actual	(243.7)	(10,234)	(25,523.22)	2,877.89	104.7465		
Balance Per G/L 10/31/2015	1,911.9	80,298	169,055.48	5,121.06	88.4247		
Purchases	188.6	7,922	13,914.20	547.05	0.0000		
Estimated Purchases	190.0	7,980	14,016.07	551.06			
Transfer in	1.4	60	0.00	4.14	0.00		
Consumed	(367.7)	(15,442)	(32,582.62)	(985.35)	88.6200	2.6800	91.3000
Balance @ 11/30/2015	1,924.2	80,818	164,403.13	5,237.97	85.4380		
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	1,924.2	80,818	164,403.13	5,237.97	85.4380		
Reverse Fuel Balance	xxxxxxxxxxx	xxxxxxxxxxx	(164,403.13)	xxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxx	xxxxxxxxxxx	166,025.51	xxxxxxxxxxx			
Total @ 11/30/2015 Avg Price	1,924.2	80,818	166,025.51	5,237.97	86.2812		

Weighted Avg Cost/BBL by Location

85.4380 2.7221

Weighted Avg Cost/BBL @ Avg Cost

86.2812 2.7221

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 10/31/2015	2,007.0	84,294.0	162,629.2	4,770.08			
Less: Est'd Inven Addition	(576.2)	(24,201.0)	(42,405.11)	(1,392.25)			
Purchases: Estimate		(15,892)	(26,898.80)	(914.25)			
Actual		23,750.0	40,199.3	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(10.1)	(423)	0.00	0.00			
Actual	14.6	613	0.00	1,366.30			
Consumed: Estimate	451.5	18,964	40,992.54	1,053.27			
Actual	(604.4)	(25,384)	(44,572.75)	(1,427.67)			
Balance Per G/L 10/31/2015	1,469.5	61,721	129,944.37	3,455.48	88.4247		
ULSD Purchases	188.9	7,933	13,933.52	456.37	73.7688		
Estimated Purchases	190.0	7,980	14,016.07	459.08			
Transfer in	xxxxxxxxxxxx	(120)	0.00	0.00	#DIV/0!		
Consumed	(548.2)	(23,023)	(48,578.53)	(1,288.19)	88.6200	2.3500	90.9700
Balance @ 11/30/2015	1,297.4	54,491	109,315.43	3,082.74	84.2570		
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	2,552.9	107,222	109,315.43	6,116.28	42.8200		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(109,315.43)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	111,941.60	xxxxxxxxxxxx			
Total @ 11/30/2015 Avg Price	2,552.9	107,222	111,941.60	6,116.28	43.8487		

Weighted Avg Cost/BBL by Location

42.8200 2.3958

Weighted Avg Cost/BBL @ Avg Cost

43.8487 2.3958

HAWAII ELECTRIC LIGHT CO., INC.
Estimated Weighted Average
November 2015

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 10/31/2015	89.6	3,764	9,877.26	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	5.6	235	507.98	
Actual	(5.9)	(249)	(2,490.17)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 10/31/2015	89.29	3,750	7,895.07	88.4248
Purchases	11.8	496	869.09	73.5923
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(12.5)	(527)	(1,111.97)	88.6200
Balance @ 11/30/2015	88.5	3,719	7,652.19	86.4189
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 11/30/2015	88.5	3,719	7,652.19	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(7,652.19)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	7,639.99	xxxx
Total @ 11/30/2015 Avg Price	88.5	3,719	7,639.99	86.2812

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

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	43.24	2.7240	43.24	2.7240
Ocean Transportation	53.94	3.3980	53.94	3.3980
Storage	17.20	1.0833	17.20	1.0833
Wharfage	3.81	0.2400	3.81	0.2400

DIESEL *	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	80.43	4.8807	83.29	4.8807
Ocean Transportation	57.99	3.3980	57.99	3.3980
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 ¹	80.43	4.8807	80.43	4.8807
Ocean Transportation	57.99	3.3980	57.99	3.3980
Storage	18.49	1.0833	18.49	1.0833
Wharfage	4.10	0.2400	4.10	0.2400

ULSD **	<u>ULSD</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	33.71	1.9320
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 December 1, 2015

		December 1, 2015 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	9.873	6.560
PGV (22 MW)	- off peak	9.046	5.430
WAILUKU HYDRO	- on peak	9.873	7.240
	.	9.046	5.970
Other: (<100 KW)	Sch Q Rate	9.220	

		December 1, 2015 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		12.281	
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
December 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 (December 1, 2015)	92,989 mwh
6	Adjustment (Line 4 / Line 5)	(0.311) ¢/kwh

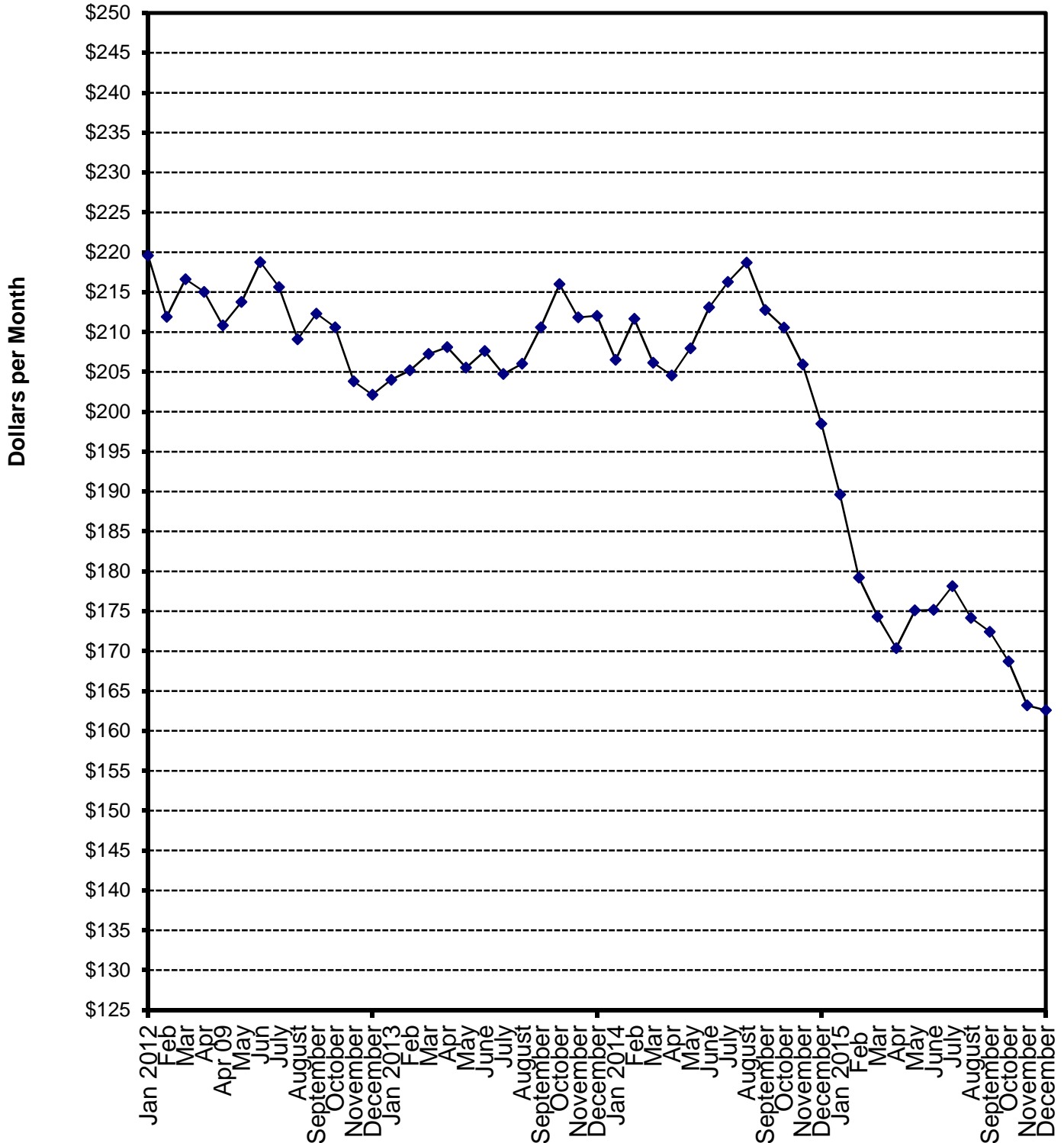
HAWAII ELECTRIC LIGHT COMPANY, INC.
2015 Cumulative Reconciliation Balance

<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	142,611	81,789
November	791,200	[3]	44,375	746,825	(263,733)		
December					(263,733)		

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 & 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

**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	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
5/1/2015	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	RBA RATE ADJUSTMENT	1.3971 CENTS/KWH
7/1/2015-7/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3157 CENTS/KWH
7/1/2015	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
7/1/2015	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

**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			
	11/01/15	12/01/15	11/01/15	12/01/15	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	1.3971	1.3971	\$6.99	\$6.99	\$0.00
Purchased Power Adj. Clause	¢/kwh	2.3204	2.3299	\$11.60	\$11.65	\$0.05
PBF Surcharge	¢/kwh	0.4749	0.4749	\$2.37	\$2.37	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Adjustment	¢/kwh	(2.7270)	(2.8590)	-\$13.64	-\$14.30	-\$0.66
Green Infrastructure Fee	\$	1.4200	1.4200	\$1.42	\$1.42	\$0.00
Avg Residential Bill at 500 kwh				\$163.20	\$162.59	
				Increase (Decrease -)		-\$0.61
				% Change		-0.37%

	Rate		Charge (\$) at 600 Kwh			
	11/01/15	12/01/15	11/01/15	12/01/15	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	1.3971	1.3971	\$8.38	\$8.38	\$0.00
Purchased Power Adj. Clause	¢/kwh	2.3204	2.3299	\$13.92	\$13.98	\$0.06
PBF Surcharge	¢/kwh	0.4749	0.4749	\$2.85	\$2.85	\$0.00
DSM Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
SolarSaver Adjustment	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
Energy Cost Adjustment	¢/kwh	(2.7270)	(2.8590)	-\$16.36	-\$17.15	-\$0.79
Green Infrastructure Fee	\$	1.4200	1.4200	\$1.42	\$1.42	\$0.00
Avg Residential Bill at 600 kwh				\$195.47	\$194.74	
				Increase (Decrease -)		-\$0.73
				% Change		-0.37%