

State of Hawaii



Public Utilities Commission

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Entity:	Hawaii Electric Light Company, Inc.
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JAY IGNACIO, P. E.
President

January 27, 2016

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 February 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for February 2016 is -2.962 cents per kilowatt-hour ("kWh"), an increase of 0.261 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$160.87, an increase of \$0.24 compared to the rates effective January 1, 2016. The increase in the typical residential bill is due to the increase in the energy cost adjustment factor (+\$1.31) and the decrease in the Purchased Power Adjustment Clause rate (-\$1.07).

Hawai'i Electric Light's fuel composite cost of generation decreased 55.33 cents per million BTU to 916.14 cents per million BTU. The composite cost of distributed generation decreased 1.504 cents per kWh to 13.368 cents per kWh. The composite cost of purchased energy increased 0.266 cents per kWh to 11.933 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 February 1, 2016.

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>1/01/16</u>	<u>2/01/16</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	971.47	916.14	(55.330)
Dispersed Generation Energy, ¢/kWh	14.872	13.368	(1.504)
Purchased Energy, ¢/kWh	11.667	11.933	0.266
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(3.223)	(2.962)	0.261
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(3.223)	(2.962)	0.261
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$160.63	\$160.87	0.24
600 KWH Consumption - \$/Bill	\$192.41	\$192.69	0.28

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

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

<u>Line</u>		
1	Effective Date	February 1, 2016
2	Supercedes Factors of	January 1, 2016

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		534.53			
5	Puna Industrial		564.48			
6	Keahole Diesel		1,243.13			
6a	Keahole ULSD		1,392.76			
7	Waimea ULSD Diesel		1,416.50			
8	Hilo Diesel		1,208.74			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,393.50			
9	Puna Diesel		1,217.06			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		40.411			
14	Puna Industrial		1.218			
15	Keahole Diesel		53.689			
15a	Keahole ULSD		0.684			
16	Waimea ULSD Diesel		0.513			
17	Hilo Diesel		0.269			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.415			
18	Puna Diesel		0.000			
19	Wind		0.000			
20	Hydro		2.801			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		916.14			
22	% Input to System kWh Mix		45.195			
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	34.148	0.005173		
24	Diesel	0.010424	63.051	0.006572		
25	Other	0.012621	2.801	0.000354		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0120990		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))				5.00958	
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)				(2.10837)	
33	Revenue Tax Req Multiplier				1.0975	
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))				(2.31394)	
				DG ENERGY COMPONENT		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	13.368
				36	% Input to System kWh Mix	0.147
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01965
				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)	0.01023
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.01198
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(2.31394)
				46	DG (line 44)	0.01198
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(2.30196)

¹ Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		12.550
49	PGV	On Peak	9.436
50	PGV	Off Peak	10.790
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	9.436
56	Wailuku Hydro	Off Peak	10.790
57	Hawi Renewable Dev.	On Peak	9.436
58	Hawi Renewable Dev.	Off Peak	10.790
59	Tawhiri (Pakini Nui)	On Peak	17.220
60	Tawhiri (Pakini Nui)	Off Peak	13.990
61			
62	Small Hydro (>100 KW)	On Peak	9.436
63	Small Hydro (>100 KW)	Off Peak	10.790
64	Sch Q Hydro (<100 KW)		9.720
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		36.411
67	PGV	On Peak	17.284
68	PGV	Off Peak	10.756
69	PGV - Addt'l	On Peak	2.846
70	PGV - Addt'l	Off Peak	2.208
71	PGV - Add'l 8 MW	On Peak	0.934
72	PGV - Add'l 8 MW	Off Peak	2.595
73	Wailuku Hydro	On Peak	4.901
74	Wailuku Hydro	Off Peak	3.353
75	Hawi Renewable Dev.	On Peak	1.653
76	Hawi Renewable Dev.	Off Peak	0.972
77	Tawhiri (Pakini Nui)	On Peak	9.325
78	Tawhiri (Pakini Nui)	Off Peak	5.992
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)		0.177
83	FIT		0.593
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.933
85	% Input to System kWh Mix		54.658
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.52234
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))		(0.67280)
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.78787)

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))	
		(3.08983)
95	Not Used	
		0.000
96	Not Used	
		0.000
97	ECA Reconciliation Adjustment	
		0.128
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))	
		(2.962)

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	33.6756	33.6756
Land Transportation Cost - \$/BBL	--	1.8867
Industrial Costs For Filing - \$/BBL	33.6756	35.5623
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	534.53	564.48

DIESEL FUEL COSTS:

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	70.1914	70.1914	70.1914
Land Transportation Cost - \$/BBL	2.6558	1.1284	0.6407
Diesel Costs For Filing - \$/BBL	72.8472	71.3198	70.8321
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,243.13	1,217.06	1,208.74

ULSD FUEL COSTS:

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	78.9445	78.9445	78.9445	78.9445
Land Transportation Cost - \$/BBL	0.8605	2.2212	0.9030	-
ULSD Costs For Filing - \$/BBL	79.8050	81.1656	79.8475	78.9445
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,392.76	1,416.50	1,393.50	1,377.74

Dispersed Generation, cents per kWh

	COMPOSITE COST OF DISP. GEN.
BBIs Fuel:	216.7539
\$/BBI Inv Cost:	78.9445
Fuel \$ (Prod Sim Consumption x Unit Cost)	17,111.52
Net kWh (from Prod Sim)	128,000
cents/kWh:	13.368

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 12/31/2015	0	0.00	29,766	1,079,748.16			
Less: Est'd Inventory Addn			(7,277)	(245,233.16)			
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	(47,347)	(1,971,602.33)			
Actual	0	0.00	46,760	1,960,757.69			
Consumed: Estimate	0	0.00	43,065	1,974,836.01			
Actual	0	0.00	(43,937)	(2,014,822.79)			
Balance Per G/L 12/31/2015	0	0.00	21,030	783,683.58			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	57,127	1,977,713.41			
Consumed	0	0.00	(48,620)	(1,897,808.77)	106.5901	0.0000	106.5901
Balance @ 01/31/2016	0	0.00	29,537	863,588.22			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 01/31/2016	0	0.00	29,537	863,588.22			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(863,588.22)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	994,675.92			
Total @ 9/30/2013 Avg Price	0	0.00	29,537	994,675.92			

Weighted Avg Cost/BBL by Location #DIV/0! 29.2375

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 33.6756

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 12/31/2015	8,753	424,677.11	16,552.80			
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	(32)	0.00	(38.26)			
Actual	32	0.00	0.00			
Consumed: Estimate	0	0.00	0.00			
Actual	0	0.00	0.00			
Balance Per G/L 12/31/2015	<u>8,753</u>	<u>424,677.11</u>	<u>16,514.54</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0	0	0.00			
Consumed	0	<u>0.00</u>	0.00	39.0335	1.8911	40.9246
Balance @ 01/31/2016	8,753	<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>8,753</u>	<u>424,677.11</u>	<u>16,514.54</u>		<u>1.8867</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(424,677.11)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	294,762.44	XXXXXXXXXXXX			
Total @ 01/01/2016 Avg Price	<u>8,753</u>	<u>294,762.44</u>	<u>16,514.54</u>			

Weighted Avg Cost/BBL by Location

48.5179

1.8867

Weighted Avg Cost/BBL @ Avg Cost

33.6756

1.8867

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

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 12/31/2015	60,704.6	2,549,592.0	4,464,549.4	166,120.7			
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		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate	(41,683.3)	(1,750,697.0)	(3,108,912.6)	(120,894.0)			
Actual	34,576.8	1,452,225.0	2,575,826.9	98,588.59			
Consumed: Estimate	34,231.1	1,437,708.0	2,579,183.1	96,042.32			
Actual	(29,997.3)	(1,259,887.0)	(2,260,180.8)	(84,163.7)	75.3461		
Balance Per G/L 12/31/2015	57,831.9	2,428,941	4,250,465.92	155,693.96	73.4969		
Purchases	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer in	33,257.5	1,396,817.0	2,329,128.9	88,890.8	70.0331		
Consumed	(33,082.3)	(1,389,456.0)	(2,441,310.6)	(90,529.67)	73.7951	2.7365	76.5316
Balance @ 01/31/2016	58,007.2	2,436,302	4,138,284.22	154,055.06	71.3409		
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	58,007.2	2,436,302	4,138,284.22	154,055.06	71.3409		
Reverse Fuel Balance	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	(4,138,284.2)	xxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	4,071,606.7	xxxxxxxxxxxxxxx			
Total @ 01/01/2016 Avg Price	58,007.2	2,436,302	4,071,606.67	154,055.06	70.1914		

Weighted Avg Cost/BBL by Location 71.3409 2.6558

Weighted Avg Cost/BBL @ Avg Cost 70.1914 2.6558

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 12/31/2015	4,092.0	171,866.0	308,547.3	4,612.6			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers out: Estimate		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	5.3	221.0	0.0	6.0			
Actual	565.1	23,735.0	42,212.7	642.4			
Consumed: Estimate	69.4	2,915.0	5,229.4	78.3			
Actual	(47.0)	(1,975.0)	(3,543.1)	(53.0)			
Balance Per G/L 12/31/2015	4,684.8	196,762	352,446.30	5,286.18			
Purchases		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	0.3	13.0	0.0	0.4	0.0000		
Consumed	(80.2)	(3,370)	(5,921.18)	(90.44)	73.7951	1.1272	74.9223
Balance @ 01/31/2016	4,604.9	193,405	346,525.12	5,196.11	75.2517		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 01/31/2016	4,604.9	193,405	346,525.12	5,196.11	75.2517		
Reverse Fuel Balance		xxxxxxxxxxxx	(346,525.12)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx	323,223.10	xxxxxxxxxxxx			
Total @ 01/01/2016 Avg Price	4,604.9	193,405	323,223.10	5,196.11	70.1914		

Weighted Avg Cost/BBL by Location 75.2517 1.1284

Weighted Avg Cost/BBL @ Avg Cost 70.1914 1.1284

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 12/31/2015	1170.5	49,159	88,454	414			
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	567.0	23813.0	42209.2	566.9			
Consumed: Estimate	246.2	10339.0	18547.7	87.2			
Actual	-263.8	-11078.0	-19873.4	-93.4			
Balance Per G/L 12/31/2015	1719.8	72,233	129,337.46	974.47	75.2035		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	4.9	207.0	0.0	5.8	0.0000		
Consumed	-434.4	-18245.0	-32056.9	-153.6	73.7951	0.3535	74.1486
Balance @ 01/31/2016	1,290.4	54,195	97,280.52	826.73	75.3904		
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	1,290.4	54,195	97,280.52	826.73	75.3904		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX	-97,280.52	XXXXXXXXXXXX		
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX	90,571.99	XXXXXXXXXXXX		
Total @ 01/01/2016 Avg Price	1,290.4	54,195	90,571.99	826.73	70.1914		

Weighted Avg Cost/BBL by Location

75.3904 0.6407

Weighted Avg Cost/BBL @ Avg Cost

70.1914 0.6407

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 12/31/2015	2,208.2	92,743	178,018.26	3,964.96			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(757.7)	(31,822)	(54,059.22)	(2,197.46)			
Actual	377.7	15,862	26,946.37	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(255)	0.00	(17.61)			
Actual		238	0.00	1,095.35			
Consumed: Estimate	513.8	21,580	44,332.10	1,398.64			
Actual	(404.7)	(16,999)	(34,921.28)	(2,970.92)	86.2812		
Balance Per G/L 12/31/2015	1,936.8	81,347	160,316.23	1,272.96	82.7723		
Purchases	189.1	7,943	11,913.70	505.48	0.0000		
Estimated Purchases	190.0	7,980	11,969.20	507.83			
Transfer in	(0.5)	(23)	0.00	(1.46)	0.00		
Consumed	(312.6)	(13,129)	(25,480.39)	(561.30)	81.5124	1.7956	83.3080
Balance @ 01/31/2016	2,002.8	84,118	158,718.74	1,723.51	79.2480		
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	2,002.8	84,118	158,718.74	1,723.51	79.2480		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(158,718.74)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	158,110.73	xxxxxxxxxxxx			
Total @ 01/01/2016 Avg Price	2,002.8	84,118	158,110.73	1,723.51	78.9445		

Weighted Avg Cost/BBL by Location

79.2480 0.8605

Weighted Avg Cost/BBL @ Avg Cost

78.9445 0.8605

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 12/31/2015	1,605.6	67,435.0	123,160.0	3,801.16			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(31,824)	(54,062.60)	(1,830.79)			
Actual		15,864.0	26,949.8	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(27.1)	(1,138)	0.00	0.00			
Actual	28.4	1,192	0.00	912.63			
Consumed: Estimate	683.9	28,724	59,008.12	1,625.03			
Actual	(616.6)	(25,899)	(53,204.67)	(1,492.04)			
Balance Per G/L 12/31/2015	1,294.1	54,354	101,850.64	3,015.99	78.7012		
ULSD Purchases	378.1	15,882	23,821.41	842.01	62.9958		
Estimated Purchases	190.0	7,980	11,969.20	423.07			
Transfer in	xxxxxxxxxxxx	1,629	0.00	0.00	#DIV/0!		
Consumed	(399.8)	(16,792)	(32,589.43)	(946.51)	81.5124	2.3674	83.8798
Balance @ 01/31/2016	1,501.3	63,053	105,051.82	3,334.56	69.9757		
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	1,501.3	63,053	105,051.82	3,334.56	69.9757		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(105,051.82)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	118,516.32	xxxxxxxxxxxx			
Total @ 01/01/2016 Avg Price	1,501.3	63,053	118,516.32	3,334.56	78.9445		

Weighted Avg Cost/BBL by Location

69.9757 2.2212

Weighted Avg Cost/BBL @ Avg Cost

78.9445 2.2212

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 12/31/2015	1,433.4	60,203.0	125,811.7	740.1		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(190.0)	(7,980)	(13,556.42)	(189.66)		
Actual	0.0	0	0.00	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		228	0.00	5.42		
Actual		(228)	0.00	566.93		
Consumed: Estimate	195.4	8,205	16,855.65	69.54		
Actual	(158.6)	(6,661)	(13,683.78)	(54.80)		
Balance Per G/L 12/31/2015	1,280.2	53,767	115,427.10	1,137.54		
ULSD Purchases	189	7,941	11,910.71	173.93	62.99582168	
Estimated Purchases	0	-	-	-		
Transfer in	(10)	(404)	0.00	(8.85)		
Consumed	(71.0)	(2,980)	(5,783.50)	(48.64)	81.5124	0.5163
Balance @ 01/31/2016	1,388.7	58,324	121,554.31	1,253.98		
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	1,388.7	58,324	121,554.31	1,253.98		
Reverse Fuel Balance	x	x	(121,554.31)	x		
Fuel Balance @ Avg Price	x	x	109,627.55	x		
Total @ 01/01/2016 Avg Price	1,388.7	58,324	109,627.55	1,253.98		

Weighted Avg Cost/BBL by Location 87.5331 0.9030

Weighted Avg Cost/BBL @ Avg Cost 78.9445 0.9030

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 12/31/2015	60.5	2,541	5,650.95	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	27.4	1,151	2,364.52	
Actual	(18.6)	(780)	(1,602.36)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
Balance Per G/L 12/31/2015	69.33	2,912	6,413.11	92.4968
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXX	
Consumed	(3.9)	(162)	(314.40)	81.5124
Balance @ 01/31/2016	65.5	2,750	6,098.71	93.1439
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 01/31/2016	65.5	2,750	6,098.71	
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(6,098.71)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	5,168.98	xxxx
Total @ 01/01/2016 Avg Price	65.5	2,750	5,168.98	78.9445

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

TYPE OF OIL BURNED

INDUSTRIAL *	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	35.46	2.2340	35.46	2.2340
Ocean Transportation	52.97	3.3374	52.97	3.3374
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	72.61	4.3939	74.98	4.3939
Ocean Transportation	56.95	3.3374	56.95	3.3374
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	72.61	4.3939	72.61	4.3939
Ocean Transportation	56.95	3.3374	56.95	3.3374
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 February 1, 2016

		February 1, 2016 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	9.436	6.560
PGV (22 MW)	- off peak	10.790	5.430
WAILUKU HYDRO	- on peak	9.436	7.240
	.	10.790	5.970
Other: (<100 KW)	Sch Q Rate	9.720	

		February 1, 2016 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		12.550	
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
February 1, 2016

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be returned or collected	\$282,600
2	Monthly Amount ($\frac{1}{3}$ x Line 1)	\$94,200
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	\$103,386
5	Estimated MWh Sales (February 1, 2016)	80,833 mwh
6	Adjustment (Line 4 / Line 5)	0.128 ¢/kwh

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

<u>LINE</u>	<u>DESCRIPTION</u>	Info Only December 2015 YTD Total <u>No Deadband</u>	collectn by company*	Basis for Recon December 2015 YTD Total <u>Deadband</u>	Collection or Refund by <u>Company</u>
ACTUAL COSTS:					
1	Generation	\$71,837.4		\$71,837.4	
2	Distributed Generation	\$13.6		\$13.6	
3	Purch Power	\$78,160.3		\$78,160.3	
4	TOTAL	<u>\$150,011.3</u>		<u>\$150,011.3</u>	
FUEL FILING COST (1)					
5	Generation	\$72,070.9		\$72,361.0	
6	Distributed Generation	\$13.6		\$13.6	
7	Purch Power	\$78,160.3		\$78,160.3	
8	TOTAL	<u>\$150,244.8</u>		<u>\$150,535.0</u>	
BASE FUEL COST					
9	Generation	\$70,323.4		\$70,323.4	
10	Distributed Generation	\$7.5		\$7.5	
11	Purch Power	\$86,608.8		\$86,608.8	
12	TOTAL	<u>\$156,939.7</u>		<u>\$156,939.7</u>	
13	FUEL-BASE COST (Line 8-12)	-\$6,694.9		-\$6,404.7	
14	ACTUAL FOA LESS TAX	-\$6,833.9		-\$6,833.9	
15	Less: FOA reconciliation adj for prior year	-\$410.3		-\$410.3	
16	ADJUSTED FOA LESS TAX	<u>-\$6,423.6</u>		<u>-\$6,423.6</u>	
17	FOA-(FUEL-BASE) (Line 16-13)	\$271.3	over	-\$18.9	under
ADJUSTMENTS:					
18	Current year FOA accrual reversal	-\$1,013.1		-\$1,013.1	
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>-\$741.8</u>	under	<u>-\$1,032.0</u>	under
22	Third Quarter FOA reconciliation			-749.4	under
23	FOA Reconciliation to be Returned or Collected			-282.6	under

* 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 - Dec, 2015
YTD

	Notes	
<u>Industrial</u>		
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	169,335,583
Industrial Consumption (Recorded), MMBTU	b	2,440,579
Industrial Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	14,413
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	15,048
<u>Diesel</u>		
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	287,551,408
Diesel Consumption (Recorded), MMBTU	b	3,054,561
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	10,623
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	10,524
<u>Biodiesel</u>		
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	0
<u>Hydro</u>		
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	20,234,183
Hydro Consumption (Recorded), MMBTU	b	243,059
Hydro Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	12,012
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	12,521

* 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

	Without Deadband	With Deadband
	Jan 1 - Dec 31	As Filed
	Jan 1 - Dec 31	Jan 1 - Dec 31
<u>INDUSTRIAL FUEL FILING COST</u>		
Industrial Portion of Recorded Sales , kWh	169,335,583	169,335,583
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	2,565,095	2,548,162
\$/mmbtu	<u>\$9.6589</u>	<u>\$9.6589</u>
TOTAL INDUSTRIAL \$000s TO BE RECOVERED	\$24,776.098	\$24,612.538
<u>DIESEL FUEL FILING COST</u>		
Diesel Portion of Recorded Sales, kWh	287,551,408	287,551,408
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010524
Mmbtu adjusted for Sales Efficiency Factor	2,997,436	3,026,191
\$/mmbtu	<u>\$15.7784</u>	<u>\$15.7784</u>
TOTAL DIESEL \$000s TO BE RECOVERED	\$47,294.778	\$47,748.489
<u>HYDRO FUEL FILING COST</u>		
Hydro Portion of Recorded Sales , kWh	20,234,183	20,234,183
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012521
Mmbtu adjusted for Sales Efficiency Factor	255,376	253,352
\$/mmbtu	<u>\$0.0000</u>	<u>\$0.0000</u>
TOTAL HYDRO \$000s TO BE RECOVERED	\$0.000	\$0.000
TOTAL GENERATION FUEL FILING COST, \$000s	\$72,070.9	\$72,361.0
<u>CALCULATION OF GENERATION BASE FUEL COST</u>		
TOTAL GENERATION BASE FUEL COST, \$000s	\$70,323.4	\$70,323.4
TOTAL GENERATION FUEL FILING COST, \$000s YTD	\$72,070.9	\$72,361.0
TOTAL GENERATION BASE FUEL COST YTD	\$70,323.4	\$70,323.4

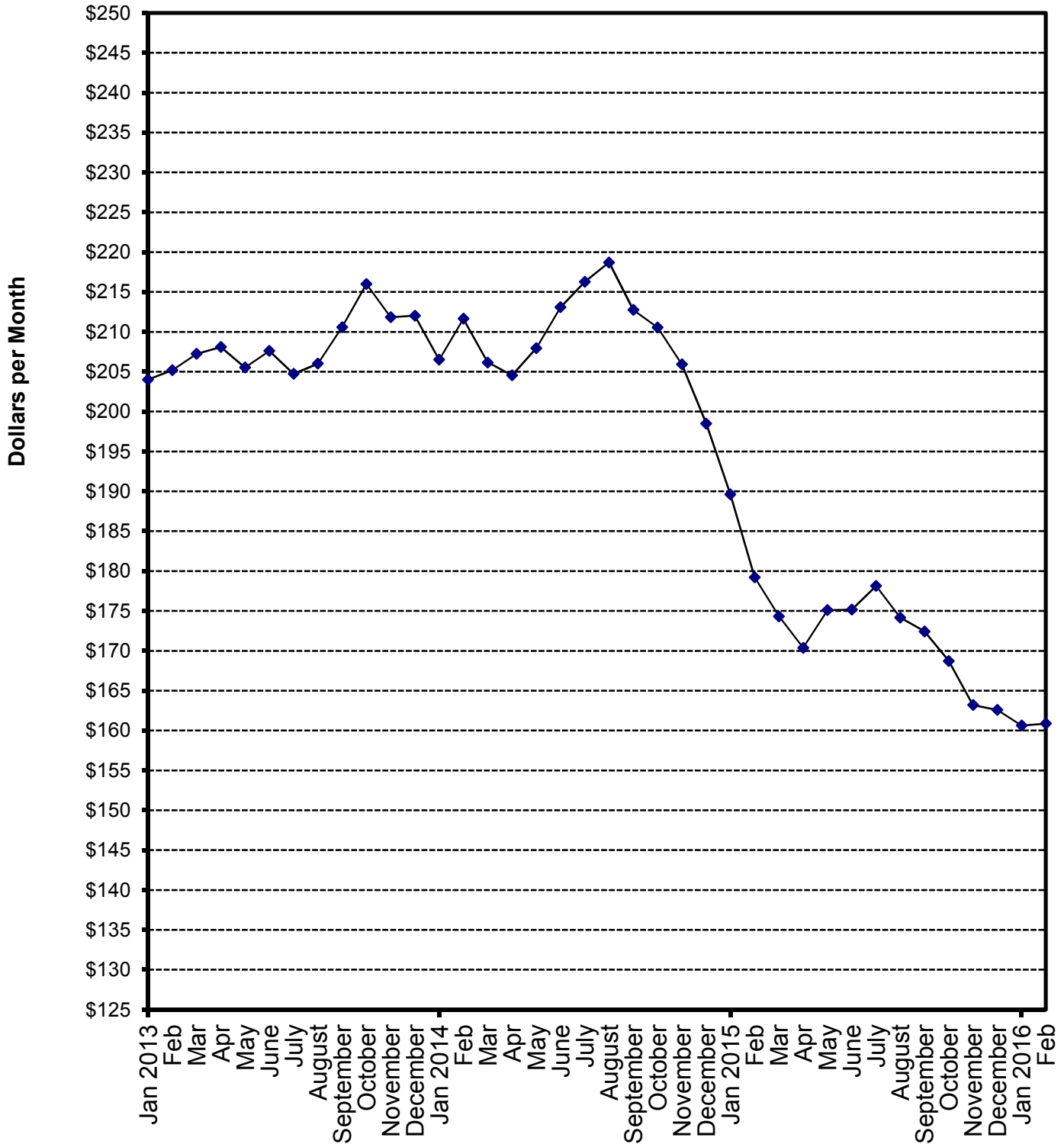
HAWAII ELECTRIC LIGHT COMPANY, INC.
2015 Cumulative Reconciliation Balance

<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)	(262,906)	565,708
December					(263,733)	(256,311)	309,397
January 16					(263,733)		
February	(282,600)	[4]	10,260	(292,860)	94,200		

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>RESIDENTIAL BILL (\$)</u> <u>@ 500 KWH</u>	<u>@ 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

**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
7/1/2015-12/31/2015	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	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
2/1/2016 - 2/29/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1114 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		
	1/01/16	2/01/16	1/01/16	2/01/16	Difference
Base Rates					
effective date:	4/9/2012	4/9/2012			
Base Fuel Energy Charge	¢/kwh 16.2487	16.2487	\$81.24	\$81.24	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh		\$62.72	\$62.72	\$0.00
First 300 kWh per month	¢/kwh 11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh 14.5537	14.5537	\$29.11	\$29.11	\$0.00
Customer Charge	\$ 10.50	10.50	\$10.50	\$10.50	\$0.00
Total Base Charges			\$154.46	\$154.46	\$0.00
RBA Rate Adjustment	¢/kwh 1.3971	1.3971	\$6.99	\$6.99	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.3260	2.1114	\$11.63	\$10.56	-\$1.07
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 (3.2230)	(2.9620)	-\$16.12	-\$14.81	\$1.31
Green Infrastructure Fee	\$ 1.3000	1.3000	\$1.30	\$1.30	\$0.00
Avg Residential Bill at 500 kwh			\$160.63	\$160.87	
			Increase (Decrease -)		\$0.24
			% Change		0.15%

	Rate		Charge (\$) at 600 Kwh		
	1/01/16	2/01/16	1/01/16	2/01/16	Difference
Base Rates					
effective date:	4/9/2012	4/9/2012			
Base Fuel/Energy Charge	¢/kwh 16.2487	16.2487	\$97.49	\$97.49	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh		\$77.27	\$77.27	\$0.00
First 300 kWh per month	¢/kwh 11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh 14.5537	14.5537	\$43.66	\$43.66	\$0.00
Customer Charge	\$ 10.50	10.50	\$10.50	\$10.50	\$0.00
Total Base Charges			\$185.26	\$185.26	\$0.00
RBA Rate Adjustment	¢/kwh 1.3971	1.3971	\$8.38	\$8.38	\$0.00
Purchased Power Adj. Clause	¢/kwh 2.3260	2.1114	\$13.96	\$12.67	-\$1.29
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 (3.2230)	(2.9620)	-\$19.34	-\$17.77	\$1.57
Green Infrastructure Fee	\$ 1.3000	1.3000	\$1.30	\$1.30	\$0.00
Avg Residential Bill at 600 kwh			\$192.41	\$192.69	
			Increase (Decrease -)		\$0.28
			% Change		0.15%