

State of Hawaii



Public Utilities Commission

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

February 25, 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 March 2016

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for March 2016 is -4.311 cents per kilowatt-hour ("kWh"), a decrease of 1.349 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$154.26, a decrease of \$6.61 compared to the rates effective February 1, 2016. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$6.75) and the increase in the Purchased Power Adjustment Clause rate (+\$0.14).

Hawai'i Electric Light's fuel composite cost of generation decreased 133.95 cents per million BTU to 782.19 cents per million BTU. The composite cost of distributed generation decreased 0.283 cents per kWh to 13.085 cents per kWh. The composite cost of purchased energy decreased 0.931 cents per kWh to 11.002 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 March 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>2/01/16</u>	<u>3/01/16</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	916.14	782.19	(133.950)
Dispersed Generation Energy, ¢/kWh	13.368	13.085	(0.283)
Purchased Energy, ¢/kWh	11.933	11.002	(0.931)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(2.962)	(4.311)	(1.349)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(2.962)	(4.311)	(1.349)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$160.87	\$154.26	(6.61)
600 KWH Consumption - \$/Bill	\$192.69	\$184.76	(7.93)

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

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

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

GENERATION COMPONENT

CENTRAL STATION WITH WIND/HYDRO COMPONENT						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		474.14			
5	Puna Industrial		504.10			
6	Keahole Diesel		1,088.85			
6a	Keahole ULSD		1,317.96			
7	Waimea ULSD Diesel		1,335.35			
8	Hilo Diesel		1,052.79			
8a	Hilo (Kanoelehua) ULSD Diesel ¹		1,311.99			
9	Puna Diesel		1,061.05			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		41.472			
14	Puna Industrial		0.000			
15	Keahole Diesel		51.764			
15a	Keahole ULSD		0.609			
16	Waimea ULSD Diesel		0.469			
17	Hilo Diesel		0.258			
17a	Hilo (Kanoelehua) ULSD Diesel ¹		0.375			
18	Puna Diesel		0.000			
19	Wind		0.000			
20	Hydro		5.053			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		782.19			
22	% Input to System kWh Mix		43.679			
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	34.387	0.005209		
24	Diesel	0.010424	60.560	0.006313		
25	Other	0.012621	5.053	0.000638		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0121600		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))				4.15450	
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)				(2.96345)	
33	Revenue Tax Req Multiplier				1.0975	
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))				(3.25239)	
				DG ENERGY COMPONENT		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	13.085
				36	% Input to System kWh Mix	0.132
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.01727
				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)	0.00785
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.00919
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(3.25239)
				46	DG (line 44)	0.00919
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(3.24320)

¹ Hilo ULSD same location as Kanoelehua ULSD

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

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

Line	PURCHASED ENERGY COMPONENT		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		11.387
49	PGV	On Peak	8.534
50	PGV	Off Peak	9.808
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	8.534
56	Wailuku Hydro	Off Peak	9.808
57	Hawi Renewable Dev.	On Peak	8.534
58	Hawi Renewable Dev.	Off Peak	9.808
59	Tawhiri (Pakini Nui)	On Peak	16.970
60	Tawhiri (Pakini Nui)	Off Peak	13.880
61			
62	Small Hydro (>100 KW)	On Peak	8.534
63	Small Hydro (>100 KW)	Off Peak	9.808
64	Sch Q Hydro (<100 KW)		8.790
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		29.139
67	PGV	On Peak	20.730
68	PGV	Off Peak	12.792
69	PGV - Addt'l	On Peak	3.675
70	PGV - Addt'l	Off Peak	2.961
71	PGV - Add'l 8 MW	On Peak	1.335
72	PGV - Add'l 8 MW	Off Peak	3.602
73	Wailuku Hydro	On Peak	1.366
74	Wailuku Hydro	Off Peak	0.999
75	Hawi Renewable Dev.	On Peak	4.562
76	Hawi Renewable Dev.	Off Peak	2.374
77	Tawhiri (Pakini Nui)	On Peak	9.873
78	Tawhiri (Pakini Nui)	Off Peak	5.799
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)		0.197
83	FIT		0.596
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.002
85	% Input to System kWh Mix		56.189
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.18191
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))		(1.01323)
91	Loss Factor		1.067
92	Revenue Tax Req Multiplier		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(1.18653)

Line	SYSTEM COMPOSITE	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93)) (4.42973)	
95	Not Used 0.000	
96	Not Used 0.000	
97	ECA Reconciliation Adjustment 0.119	
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97)) (4.311)	

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

INDUSTRIAL FUEL COSTS:

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	29.8705	29.8705
Land Transportation Cost - \$/BBL	--	1.8875
Industrial Costs For Filing - \$/BBL	29.8705	31.7580
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	474.14	504.10

DIESEL FUEL COSTS:

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	61.0558	61.0558	61.0558
Land Transportation Cost - \$/BBL	2.7506	1.1219	0.6378
Diesel Costs For Filing - \$/BBL	63.8064	62.1778	61.6936
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,088.85	1,061.05	1,052.79

ULSD FUEL COSTS:

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	74.2544	74.2544	74.2544	74.2544
Land Transportation Cost - \$/BBL	1.2648	2.2612	0.9226	-
ULSD Costs For Filing - \$/BBL	75.5192	76.5156	75.1771	74.2544
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,317.96	1,335.35	1,311.99	1,295.89

Dispersed Generation, cents per kWh

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	216.7539
\$/BBI Inv Cost:	74.2544
Fuel \$ (Prod Sim Consumption x Unit Cost)	16,094.94
Net kWh (from Prod Sim)	123,000
cents/kWh:	13.085

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

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 01/31/2016	0	0.00	29,537	863,588.22			
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	(57,127)	(1,977,713.41)			
Actual	0	0.00	51,141	1,771,868.04			
Consumed: Estimate	0	0.00	48,620	1,897,808.77			
Actual	0	0.00	(49,260)	(1,922,792.51)			
Balance Per G/L 01/31/2016	0	0.00	22,911	632,759.11			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	55,495	1,714,844.32			
Consumed	0	0.00	(47,576)	(1,602,150.35)	106.5901	0.0000	106.5901
Balance @ 02/29/2016	0	0.00	30,830	745,453.09			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 02/29/2016	0	0.00	30,830	745,453.09			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(745,453.09)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	920,907.82			
Total @ 9/30/2013 Avg Price	0	0.00	30,830	920,907.82			

Weighted Avg Cost/BBL by Location #DIV/0! 24.1795

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 29.8705

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

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 01/31/2016	8,753	424,677.11	16,514.54			
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	0	0.00	0.00			
Actual	0	0.00	0.00			
Consumed: Estimate	0	0.00	0.00			
Actual	0	0.00	0.00			
Balance Per G/L 01/31/2016	<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	(9)	0	(10.76)			
Consumed	(423)	<u>(14,244.78)</u>	(798.07)	33.6756	1.8867	35.5623
Balance @ 02/29/2016	8,321	<u>410,432.33</u>	15,705.70			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>8,321</u>	<u>410,432.33</u>	<u>15,705.70</u>		1.8875	
Reverse Fuel Balance	XXXXXXXXXXXX	(410,432.33)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	248,552.51	XXXXXXXXXXXX			
Total @ 03/01/2016 Avg Price	<u>8,321</u>	<u>248,552.51</u>	<u>15,705.70</u>			

Weighted Avg Cost/BBL by Location

49.3249

1.8875

Weighted Avg Cost/BBL @ Avg Cost

29.8705

1.8875

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

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 01/31/2016	58,007.2	2,436,302.0	4,138,284.2	154,055.1			
Less: Est'd Inventory Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Transfers out: Estimate		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Actual		xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfers in: Estimate	(33,257.5)	(1,396,817.0)	(2,329,128.9)	(88,890.8)			
Actual	31,331.2	1,315,912.0	2,211,894.3	89,833.14			
Consumed: Estimate	33,082.3	1,389,456.0	2,441,310.6	90,529.67			
Actual	(38,529.0)	(1,618,220.0)	(2,843,256.4)	(107,392.1)	73.7951		
Balance Per G/L 01/31/2016	50,634.1	2,126,633	3,619,103.78	138,135.00	71.4756		
Purchases	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx			
Transfer in	37,569.6	1,577,924.0	2,219,150.7	100,416.1	59.0677		
Consumed	(42,851.9)	(1,799,778.0)	(3,007,831.8)	(113,805.96)	70.1914	2.6558	72.8472
Balance @ 02/29/2016	45,351.9	1,904,779	2,830,422.65	124,745.12	62.4103		
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	45,351.9	1,904,779	2,830,422.65	124,745.12	62.4103		
Reverse Fuel Balance	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	(2,830,422.6)	xxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxxxxx	xxxxxxxxxxxxxxx	2,768,996.9	xxxxxxxxxxxxxxx			
Total @ 03/01/2016 Avg Price	45,351.9	1,904,779	2,768,996.86	124,745.12	61.0558		

Weighted Avg Cost/BBL by Location 62.4103 2.7506

Weighted Avg Cost/BBL @ Avg Cost 61.0558 2.7506

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

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 01/31/2016	4,604.9	193,405.0	346,525.1	5,196.1			
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	(0.3)	(13.0)	0.0	(0.4)			
Actual	(2.6)	(108.0)	0.0	0.0			
Consumed: Estimate	80.2	3,370.0	5,921.2	90.4			
Actual	(54.4)	(2,283.0)	(4,011.3)	(73.9)			
Balance Per G/L 01/31/2016	4,627.9	194,371	348,435.01	5,212.30			
Purchases		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	(132.5)	(5,566.0)	(10,463.6)	(158.5)	78.9562		
Consumed	(1,603.4)	(67,341)	(112,541.88)	(1,809.23)	70.1914	1.1284	71.3198
Balance @ 02/29/2016	2,892.0	121,464	225,429.55	3,244.61	77.9494		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 02/29/2016	2,892.0	121,464	225,429.55	3,244.61	77.9494		
Reverse Fuel Balance		xxxxxxxxxxxx	(225,429.55)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price		xxxxxxxxxxxx	176,573.47	xxxxxxxxxxxx			
Total @ 03/01/2016 Avg Price	2,892.0	121,464	176,573.47	3,244.61	61.0558		

Weighted Avg Cost/BBL by Location 77.9494 1.1219

Weighted Avg Cost/BBL @ Avg Cost 61.0558 1.1219

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

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 01/31/2016	1290.4	54,195	97,281	827			
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	-4.9	-207.0	0.0	-5.8			
Actual	4.9	207.0	0.0	0.0			
Consumed: Estimate	434.4	18245.0	32056.9	153.6			
Actual	-295.7	-12421.0	-21824.0	-115.7			
Balance Per G/L 01/31/2016	1429.0	60,019	107,513.43	858.78	75.2356		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	188.2	7904.0	0.0	173.1	0.0000		
Consumed	-167.0	-7014.0	-11722.0	-107.0	70.1914	0.6407	70.8321
Balance @ 02/29/2016	1,450.2	60,909	95,791.47	924.90	66.0533		
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	1,450.2	60,909	95,791.47	924.90	66.0533		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX	-95,791.47	XXXXXXXXXXXX		
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX	88,544.04	XXXXXXXXXXXX		
Total @ 03/01/2016 Avg Price	1,450.2	60,909	88,544.04	924.90	61.0558		

Weighted Avg Cost/BBL by Location

66.0533 0.6378

Weighted Avg Cost/BBL @ Avg Cost

61.0558 0.6378

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

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 01/31/2016	2,002.8	84,118	158,718.74	1,723.51			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(379.1)	(15,923)	(23,882.90)	(1,013.31)			
Actual	378.0	15,876	23,812.40	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		23	0.00	1.46			
Actual		7	0.00	1,096.31			
Consumed: Estimate	312.6	13,129	25,480.39	561.30			
Actual	(281.8)	(11,837)	(22,972.92)	(506.06)	81.5124		
Balance Per G/L 01/31/2016	2,033.2	85,393	161,155.71	1,863.21	79.2634		
Purchases	189.1	7,941	10,355.07	505.35	0.0000		
Estimated Purchases	190.0	7,980	10,405.93	507.83			
Transfer in	4.3	179	0.00	11.39	0.00		
Consumed	(417.1)	(17,519)	(32,929.25)	(358.93)	78.9445	0.8605	79.8050
Balance @ 02/29/2016	1,999.4	83,974	148,987.45	2,528.85	74.5168		
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	1,999.4	83,974	148,987.45	2,528.85	74.5168		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(148,987.45)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	148,462.86	xxxxxxxxxxxx			
Total @ 03/01/2016 Avg Price	1,999.4	83,974	148,462.86	2,528.85	74.2544		

Weighted Avg Cost/BBL by Location

74.5168 1.2648

Weighted Avg Cost/BBL @ Avg Cost

74.2544 1.2648

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

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 01/31/2016	1,501.3	63,053.0	105,051.8	3,334.56			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(23,862)	(35,790.61)	(1,265.08)			
Actual		15,882.0	23,821.4	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(38.8)	(1,629)	0.00	0.00			
Actual	39.8	1,671	0.00	913.67			
Consumed: Estimate	399.8	16,792	32,589.43	946.51			
Actual	(410.2)	(17,230)	(33,439.51)	(989.13)			
Balance Per G/L 01/31/2016	1,301.8	54,677	92,232.53	2,940.53	70.8482		
ULSD Purchases	377.8	15,868	20,691.88	841.27	54.7680		
Estimated Purchases	190.0	7,980	10,405.92	423.07			
Transfer in	xxxxxxxxxxxx	(8)	0.00	0.00	#DIV/0!		
Consumed	(558.3)	(23,450)	(44,077.35)	(1,240.17)	78.9445	2.2212	81.1657
Balance @ 02/29/2016	1,311.1	55,067	79,252.99	2,964.70	60.4468		
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	1,311.1	55,067	79,252.99	2,964.70	60.4468		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(79,252.99)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	97,356.37	xxxxxxxxxxxx			
Total @ 03/01/2016 Avg Price	1,311.1	55,067	97,356.37	2,964.70	74.2544		

Weighted Avg Cost/BBL by Location

60.4468 2.2612

Weighted Avg Cost/BBL @ Avg Cost

74.2544 2.2612

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

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 01/31/2016	1,388.7	58,324.0	121,554.3	1,254.0		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(189.1)	(7,941)	(11,910.71)	(173.93)		
Actual	189.1	7,941	11,910.71	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		404	0.00	8.85		
Actual		(328)	0.00	188.73		
Consumed: Estimate	71.0	2,980	5,783.50	48.64		
Actual	(57.1)	(2,399)	(4,655.91)	(29.49)		
Balance Per G/L 01/31/2016	1,404.3	58,981	122,681.90	1,296.78		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	190	-	-	-		
Transfer in	(3)	(114)	0.00	(2.50)		
Consumed	(195.9)	(8,228)	(15,465.60)	(181.33)	78.9445	0.9030
Balance @ 02/29/2016	1,395.7	58,619	120,772.72	1,287.73		
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	1,395.7	58,619	120,772.72	1,287.73		
Reverse Fuel Balance	x	x	(120,772.72)	x		
Fuel Balance @ Avg Price	x	x	103,636.18	x		
Total @ 03/01/2016 Avg Price	1,395.7	58,619	103,636.18	1,287.73		

Weighted Avg Cost/BBL by Location

86.5326 0.9226

Weighted Avg Cost/BBL @ Avg Cost

74.2544 0.9226

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 01/31/2016	65.5	2,750	6,098.71	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	3.9	162	314.40	
Actual	(2.8)	(118)	(229.01)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 01/31/2016	66.52	2,794	6,184.10	92.9607
Purchases	31.9	1,340	1,747.36	54.7680
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(38.5)	(1,616)	(3,037.48)	78.9445
Balance @ 02/29/2016	60.0	2,518	4,893.98	81.6311
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 02/29/2016	60.0	2,518	4,893.98	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(4,893.98)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	4,451.73	xxxx
Total @ 03/01/2016 Avg Price	60.0	2,518	4,451.73	74.2544

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

TYPE OF OIL BURNED

	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
INDUSTRIAL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	33.11	2.0854	33.11	2.0854
Ocean Transportation	57.09	3.5966	57.09	3.5966
Storage	17.03	1.0729	17.03	1.0729
Wharfage	3.81	0.2400	3.81	0.2400
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
DIESEL *	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	67.06	4.0491	69.10	4.0491
Ocean Transportation	61.38	3.5966	61.38	3.5966
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.10	0.2400	4.10	0.2400
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
ULSD **	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax ¹	67.06	4.0491	67.06	4.0491
Ocean Transportation	61.38	3.5966	61.38	3.5966
Storage	18.31	1.0729	18.31	1.0729
Wharfage	4.10	0.2400	4.10	0.2400
	<u>ULSD</u>			
ULSD **	<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 March 1, 2016

		<u>March 1, 2016</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	8.534	6.560
PGV (22 MW)	- off peak	9.808	5.430
WAILUKU HYDRO	- on peak	8.534	7.240
	.	9.808	5.970
Other: (<100 KW)	Sch Q Rate	8.790	
		<u>March 1, 2016</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		11.387	
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
March 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 (March 1, 2016)	86,573 mwh
6	Adjustment (Line 4 / Line 5)	0.119 ¢/kwh

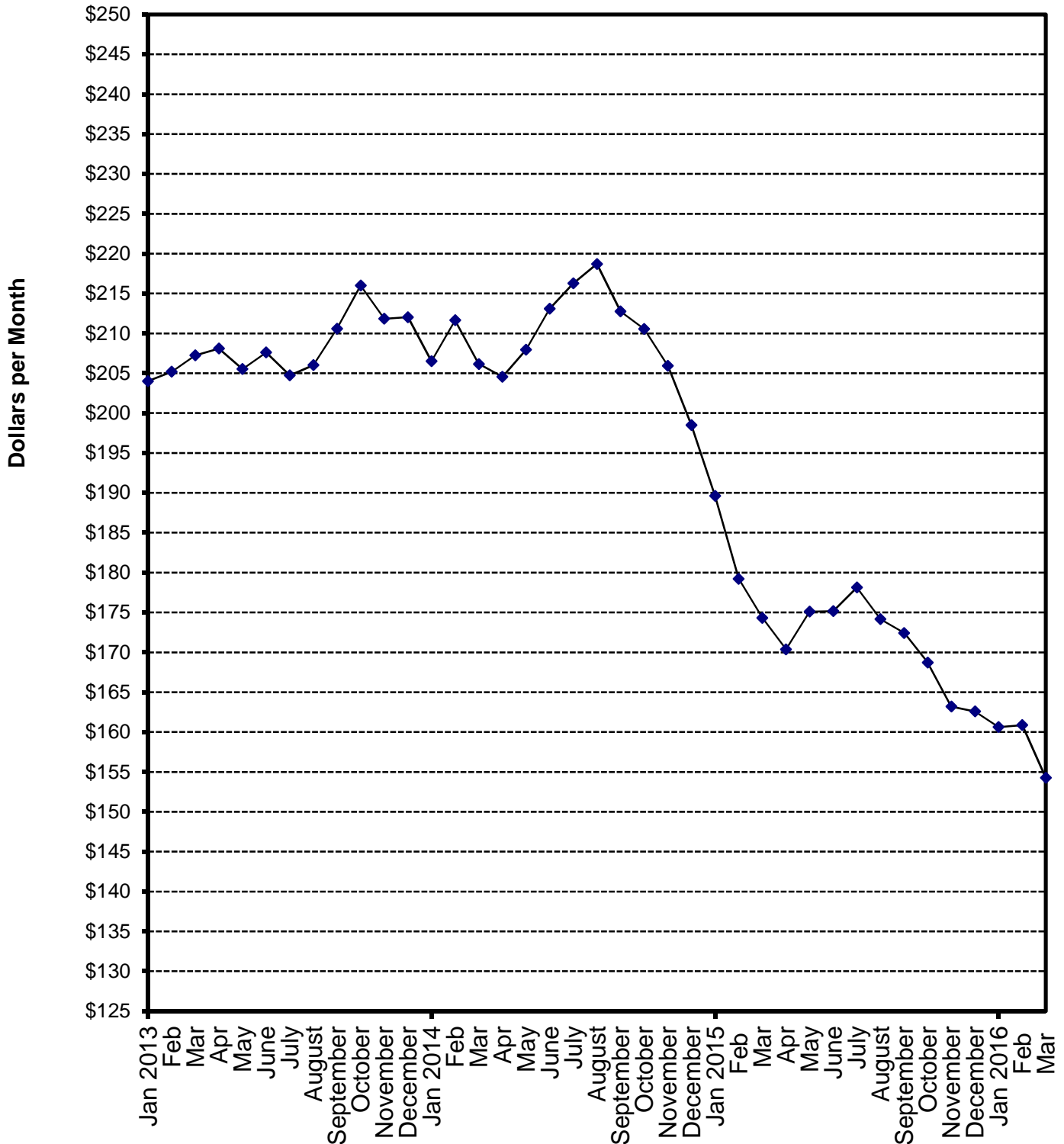
HAWAII ELECTRIC LIGHT COMPANY, INC.
2015 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
November	(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)	(264,541)	44,856
February	(282,600)	[4]	10,260	(292,860)	94,200		
March					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 BILL (\$)</u>
	<u>RESIDENTIAL & COMMERCIAL</u>	<u>@ 500 KWH @ 600 KWH</u>	
January 1, 2012	9.690	214.24	256.34
January 3, 2012	10.759	219.59	262.75
February 1, 2012	9.220	211.89	253.52
March 1, 2012	10.165	216.62	259.19
April 1, 2012	10.031	215.03	257.28
April 9, 2012	8.553	210.84	252.91
May 1, 2012	8.749	213.77	256.42
June 1, 2012	9.747	218.76	262.41
July 1, 2012	9.320	215.64	258.68
August 1, 2012	7.991	209.09	250.82
September 1, 2012	8.636	212.31	254.69
October 1, 2012	8.294	210.60	252.63
November 1, 2012	6.967	203.82	244.49
December 1, 2012	6.629	202.13	242.46
January 1, 2013	6.897	204.02	244.72
February 1, 2013	7.250	205.19	246.14
March 1, 2013	7.659	207.24	248.59
April 1, 2013	8.128	208.10	249.63
May 1, 2013	7.378	205.53	246.54
June 1, 2013	7.159	207.61	249.02
July 1, 2013	6.537	204.73	245.57
August 1, 2013	6.470	206.02	247.13
September 1, 2013	7.377	210.60	252.62
October 1, 2013	8.458	216.00	259.11
November 1, 2013	7.878	211.84	254.11
December 1, 2013	7.910	212.03	254.35
January 1, 2014	6.796	206.51	247.73
February 1, 2014	7.754	211.65	253.89
March 1, 2014	6.650	206.15	247.28
April 1, 2014	6.679	204.55	245.36
May 1, 2014	7.005	207.96	249.46
June 1, 2014	7.247	213.09	255.62
July 1, 2014	7.697	216.27	259.42
August 1, 2014	8.086	218.71	262.36
September 1, 2014	6.885	212.75	255.20
October 1, 2014	6.447	210.55	252.56
November 1, 2014	5.634	205.93	247.03
December 1, 2014	4.143	198.49	237.84
January 1, 2015	2.369	189.62	227.20
February 1, 2015	0.485	179.22	214.71
March 1, 2015	-0.519	174.32	208.85
April 1, 2015	-0.990	170.37	204.10
May 1, 2015	-0.420	175.10	209.79
June 8, 2015	-0.579	175.16	209.85
July 1, 2015	0.264	178.14	213.38
August 1, 2015	-0.586	174.16	208.61
September 1, 2015	-0.927	172.43	206.54
October 1, 2015	-1.671	168.73	202.10
November 1, 2015	-2.727	163.20	195.47
December 1, 2015	-2.859	162.59	194.74
January 1, 2016	-3.223	160.63	192.41
February 1, 2016	-2.962	160.87	192.69
March 1, 2016	-4.311	154.26	184.76

**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
3/1/2016 - 3/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1401 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			
	2/01/16	3/01/16	2/01/16	3/01/16	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	2.1114	2.1401	\$10.56	\$10.70	\$0.14
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	(2.9620)	(4.3110)	-\$14.81	-\$21.56	-\$6.75
Green Infrastructure Fee	\$	1.3000	1.3000	\$1.30	\$1.30	\$0.00
Avg Residential Bill at 500 kwh				\$160.87	\$154.26	
				Increase (Decrease -)		-\$6.61
				% Change		-4.11%

	Rate		Charge (\$) at 600 Kwh			
	2/01/16	3/01/16	2/01/16	3/01/16	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	2.1114	2.1401	\$12.67	\$12.84	\$0.17
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	(2.9620)	(4.3110)	-\$17.77	-\$25.87	-\$8.10
Green Infrastructure Fee	\$	1.3000	1.3000	\$1.30	\$1.30	\$0.00
Avg Residential Bill at 600 kwh				\$192.69	\$184.76	
				Increase (Decrease -)		-\$7.93
				% Change		-4.12%