

April 26, 2017

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 May 2017

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") energy cost adjustment factor for May 2017 is -3.035 cents per kilowatt-hour ("kWh"), a decrease of 0.610 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$160.30, a decrease of \$4.01 compared to the rates effective April 1, 2017. The decrease in the typical residential bill is due to the decrease in the energy cost adjustment factor (-\$3.05), and the decrease in the Purchased Power Adjustment Clause rate (-\$2.19), partly offset by the termination of the April 2017 credit for the SolarSaver Adjustment (+\$1.23).

Hawai'i Electric Light's fuel composite cost of generation decreased 28.61 cents per million BTU to 1,025.09 cents per million BTU. The distributed generation increased to 8.618 cents per kWh in May. The composite cost of purchased energy decreased 0.436 cents per kWh to 11.669 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 May 1, 2017.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>4/01/17</u>	<u>5/01/17</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,053.70	1,025.09	(28.61)
Dispersed Generation Energy, ¢/kWh	0.000	8.618	8.618
Purchased Energy, ¢/kWh	12.105	11.669	(0.436)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(2.425)	(3.035)	(0.610)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(2.425)	(3.035)	(0.610)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$164.31	\$160.30	(\$4.01)
600 KWH Consumption - \$/Bill	\$196.83	\$192.02	(\$4.81)

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

ENERGY COST ADJUSTMENT (ECA) FILING - May 1, 2017 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	May 1, 2017
2	Supersedes Factors of	April 1, 2017

**GENERATION COMPONENT**

<b><u>CENTRAL STATION WITH WIND/HYDRO COMPONENT</u></b>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		703.84			
5	Puna Industrial		720.21			
6	Keahole Diesel		1,195.87			
6a	Keahole ULSD		1,349.17			
7	Waimea ULSD Diesel		1,345.45			
8	Hilo Diesel		1,167.24			
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,322.66			
9	Puna Diesel		1,167.36			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		24.949			
14	Puna Industrial		8.578			
15	Keahole Diesel		64.358			
15a	Keahole ULSD		0.007			
16	Waimea ULSD Diesel		0.000			
17	Hilo Diesel		0.000			
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.000			
18	Puna Diesel		1.540			
19	Wind		0.000			
20	Hydro		0.568			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,025.09			
22	% Input to System kWh Mix		42.162			
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	22.420	0.003396		
24	Diesel	0.010424	71.887	0.007494		
25	Other	0.012621	5.693	0.000719		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0116090		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			5.01739		
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)			(2.10056)		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(2.30536)		
				<b><u>DG ENERGY COMPONENT</u></b>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh <sup>2</sup>	8.618
				36	% Input to System kWh Mix <sup>2</sup>	0.004
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.00034
				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)	(0.00908)
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	(0.01063)
				SUMMARY OF		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	(2.30536)
				46	DG (line 44)	(0.01063)
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	(2.31599)

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

<sup>2</sup> There is no forecast for February 2017 based on the production simulation files received on November 28, 2016 from R. Wang.

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

ENERGY COST ADJUSTMENT (ECA) FILING - May 1, 2017 (Page 2 of 2)

Line	<b>PURCHASED ENERGY COMPONENT</b>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		13.695
49	PGV	On Peak	10.439
50	PGV	Off Peak	10.852
51	PGV - Add'l 5 MW	On Peak	12.670
52	PGV - Add'l 5 MW	Off Peak	12.670
53	PGV - Add'l 8 MW	On Peak	6.440
54	PGV - Add'l 8 MW	Off Peak	6.440
55	Wailuku Hydro	On Peak	10.439
56	Wailuku Hydro	Off Peak	10.852
57	Hawi Renewable Dev.	On Peak	10.439
58	Hawi Renewable Dev.	Off Peak	10.852
59	Tawhiri (Pakini Nui)	On Peak	13.800
60	Tawhiri (Pakini Nui)	Off Peak	12.470
61			
62	Small Hydro (>100 KW)	On Peak	10.439
63	Small Hydro (>100 KW)	Off Peak	10.852
64	Sch Q Hydro (<100 KW)		10.290
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		21.575
67	PGV	On Peak	21.025
68	PGV	Off Peak	12.789
69	PGV - Add'l	On Peak	4.205
70	PGV - Add'l	Off Peak	3.003
71	PGV - Add'l 8 MW	On Peak	2.515
72	PGV - Add'l 8 MW	Off Peak	5.550
73	Wailuku Hydro	On Peak	2.076
74	Wailuku Hydro	Off Peak	1.385
75	Hawi Renewable Dev.	On Peak	3.431
76	Hawi Renewable Dev.	Off Peak	1.148
77	Tawhiri (Pakini Nui)	On Peak	12.334
78	Tawhiri (Pakini Nui)	Off Peak	8.437
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)		0.223
83	FIT		0.304
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.669
85	% Input to System kWh Mix		57.834
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.74865
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))		(0.44649)
91	Loss Factor		1.067
92	Revenue Tax R		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.52285)

Line	<b>SYSTEM COMPOSITE</b>		
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))		(2.83884)
95	Not Used		0.000
96	Not Used		0.000
97	ECA Reconciliation Adjustment		(0.196)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))		(3.035)

**Hawaii Electric Light Company, Inc.**  
FUEL OIL INVENTORY PRICES FOR May 1, 2017

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	44.3418	44.3418
Land Transportation Cost - \$/BBL	--	1.0312
Industrial Costs For Filing - \$/BBL	44.3418	45.3731
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	703.84	720.21

**DIESEL FUEL COSTS:**

	KEAHOLE	PUNA CT-3	HILO
Average Diesel Fuel Cost - \$/BBL	67.3614	67.3614	67.3614
Land Transportation Cost - \$/BBL	2.7167	1.0456	1.0386
Diesel Costs For Filing - \$/BBL	70.0781	68.4070	68.4000
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,195.87	1,167.36	1,167.24

**ULSD FUEL COSTS:**

	KEAHOLE	WAIMEA	HILO	DISPERSED GENERATION
Average ULSD Fuel Cost - \$/BBL	74.7514	74.7514	74.7514	74.7514
Land Transportation Cost - \$/BBL	2.5561	2.3428	1.0369	-
ULSD Costs For Filing - \$/BBL	77.3075	77.0942	75.7883	74.7514
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,349.17	1,345.45	1,322.66	1,304.56

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	4.6117
\$/BBI Inv Cost:	74.7514
Fuel \$ (Prod Sim Consumption x Unit Cost)	344.73
Net kWh (from Prod Sim)	4,000
cents/kWh:	8.618

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 03/31/2017	0	0.00	34,734	1,851,063.59			
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	(34,217)	(1,799,997.46)			
Actual	0	0.00	32,967	1,740,602.95			
Consumed: Estimate	0	0.00	35,236	1,887,627.76			
Actual	0	0.00	(35,968)	(1,929,519.00)			
Balance Per G/L 03/31/2017	0	0.00	32,752	1,749,777.84			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	22,345	1,001,812.43			
Consumed	0	0.00	(35,258)	(1,883,834.94)	106.5901	0.0000	106.5901
Balance @ 04/30/2017	0	0.00	19,839	867,755.33			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 04/30/2017	0	0.00	19,839	867,755.33			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(867,755.33)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	879,697.64			
Total @ 9/30/2013 Avg Price	0	0.00	19,839	879,697.64			

Weighted Avg Cost/BBL by Location #DIV/0! 43.7399

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 44.3418

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 03/31/2017	5,289	287,023.97	4,762.87			
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	(3,011)	(162,967.96)	(3,600.37)			
Actual	2,919	163,362.71	3,642.22			
Consumed: Estimate	2,827	151,445.22	2,583.03			
Actual	<u>(2,955)</u>	<u>(168,052.27)</u>	<u>(3,389.45)</u>			
Balance Per G/L 03/31/2017	<u>5,069</u>	<u>270,811.67</u>	<u>3,998.30</u>			
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfer in	3,127	145,343	3,739.08			
Consumed	(2,962)	<u>(158,259.66)</u>	(2,339.98)	53.4300	0.7900	54.2200
Balance @ 04/30/2017	5,234	<u>257,895.45</u>	5,397.40			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>5,234</u>	<u>257,895.45</u>	<u>5,397.40</u>		<u>1.0312</u>	
Reverse Fuel Balance	xxxxxxxxxxxx	(257,895.45)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	232,085.16	xxxxxxxxxxxx			
Total @ 05/01/2017 Avg Price	<u>5,234</u>	<u>232,085.16</u>	<u>5,397.40</u>			

Weighted Avg Cost/BBL by Location

49.2731

1.0312

Weighted Avg Cost/BBL @ Avg Cost

44.3418

1.0312

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 03/31/2017	29,943.0	1,257,604.0	2,326,678.2	82,413.3			
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	(42,780.2)	(1,796,770.0)	(3,323,845.8)	(114,343.0)			
Actual	42,705.0	1,793,611.0	3,334,890.4	112,409.50			
Consumed: Estimate	47,689.7	2,002,966.0	3,785,996.8	119,224.17			
Actual	(48,747.3)	(2,047,385.0)	(3,856,177.4)	(126,047.7)	79.1055		
Balance Per G/L 03/31/2017	28,810.1	1,210,026	2,267,542.21	73,656.26	78.7064		
Purchases	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer out	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxx			
Transfer in	54,013.6	2,268,570.0	3,785,627.8	144,367.5	70.0866		
Consumed	(44,565.0)	(1,871,728.0)	(3,507,618.3)	(114,086.28)	78.7080	2.5600	81.2680
Balance @ 04/30/2017	38,258.8	1,606,868	2,545,551.69	103,937.46	66.5351		
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	38,258.8	1,606,868	2,545,551.69	103,937.46	66.5351		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	(2,545,551.7)	xxxxxxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	2,577,164.2	xxxxxxxxxxxxxxxx			
Total @ 05/01/2017 Avg Price	38,258.8	1,606,868	2,577,164.19	103,937.46	67.3614		

Weighted Avg Cost/BBL by Location 66.5351 2.7167

Weighted Avg Cost/BBL @ Avg Cost 67.3614 2.7167



**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 03/31/2017	3,473.4	145,883.0	274,948.7	3,260.4			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(1,173.0)	(49,265.0)	(89,826.1)	(1,222.6)			
Actual	1,082.9	45,483.0	104,341.9	1,375.0			
Consumed: Estimate	1,660.1	69,725.0	131,793.9	2,115.8			
Actual	(1,513.7)	(63,575.0)	(143,441.7)	(1,841.3)			
Balance Per G/L 03/31/2017	3,529.8	148,251	277,816.67	3,687.39			
Purchases		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	1,630.6	68,484.0	104,396.7	1,699.5	64.0246		
Consumed	(1,566.3)	(65,785)	(123,281.09)	(1,628.96)	78.7080	1.0400	79.7480
Balance @ 04/30/2017	3,594.0	150,950	258,932.24	3,757.97	72.0447		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 04/30/2017	3,594.0	150,950	258,932.24	3,757.97	72.0447		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXX	(258,932.24)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXX	242,100.12	XXXXXXXXXXXXXXXXXX			
Total @ 05/01/2017 Avg Price	3,594.0	150,950	242,100.12	3,757.97	67.3614		

Weighted Avg Cost/BBL by Location

72.0447 1.0456

Weighted Avg Cost/BBL @ Avg Cost

67.3614 1.0456

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 03/31/2017	1638.9	68,834	129,359	2,436			
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	-942.3	-39575.0	-73614.8	-866.8			
Actual	941.4	39537.0	74437.4	865.8			
Consumed: Estimate	0.8	34.0	64.3	0.6			
Actual	-1.7	-72.0	-1396.5	-735.3			
Balance Per G/L 03/31/2017	1637.1	68,758	128,849.85	1,700.32	78.7064		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	0.0000		
Consumed	-13.6	-573.0	-1073.8	-14.2	78.7080	1.0400	79.7480
Balance @ 04/30/2017	1,623.5	68,185	127,776.05	1,686.13	78.7064		
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	1,623.5	68,185	127,776.05	1,686.13	78.7064		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -127,776.05	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 109,358.04	XXXXXXXXXXXX			
Total @ 05/01/2017 Avg Price	1,623.5	68,185	109,358.04	1,686.13	67.3614		

Weighted Avg Cost/BBL by Location

78.7064 1.0386

Weighted Avg Cost/BBL @ Avg Cost

67.3614 1.0386

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 03/31/2017	2,117.1	88,919	155,065.63	5,369.33			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(377.7)	(15,863)	(30,139.70)	(1,009.49)			
Actual	377.7	15,863	30,797.86	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate		(439)	0.00	(27.94)			
Actual		483	0.00	1,009.49			
Consumed: Estimate	288.1	12,101	20,805.83	720.30			
Actual	(246.5)	(10,354)	(15,558.14)	(540.02)	63.1101		
Balance Per G/L 03/31/2017	2,159.8	90,710	160,971.48	5,521.67	74.5320		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(4.0)	(166)	0.00	(10.56)	0.00		
Consumed	(151.4)	(6,360)	(11,257.20)	(387.66)	74.3400	2.5600	76.9000
Balance @ 04/30/2017	2,004.4	84,184	149,714.28	5,123.45	74.6935		
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	2,004.4	84,184	149,714.28	5,123.45	74.6935		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(149,714.28)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	149,830.32	xxxxxxxxxxxx			
Total @ 05/01/2017 Avg Price	2,004.4	84,184	149,830.32	5,123.45	74.7514		

Weighted Avg Cost/BBL by Location

74.6935 2.5561

Weighted Avg Cost/BBL @ Avg Cost

74.7514 2.5561

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 03/31/2017	1,643.0	69,008.0	121,659.4	3,834.91			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,842)	(30,099.80)	(839.89)			
Actual		15,842.0	30,757.7	0.00			
Transfers out: Estimate		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Actual		xxxxxxxxxxxx	xxxxxxxxxxxx	xxxxxxxxxxxx			
Transfers in: Estimate	(3.6)	(150)	0.00	0.00			
Actual	6.5	274	0.00	839.89			
Consumed: Estimate	216.0	9,070	15,594.48	506.54			
Actual	(208.1)	(8,739)	(14,644.69)	(461.17)			
Balance Per G/L 03/31/2017	1,653.9	69,463	123,267.14	3,880.28	74.5321		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	xxxxxxxxxxxx	80	0.00	0.00	#DIV/0!		
Consumed	(158.0)	(6,638)	(11,749.26)	(371.41)	74.3400	2.3500	76.6900
Balance @ 04/30/2017	1,497.7	62,905	111,517.88	3,508.87	74.4575		
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	1,497.7	62,905	111,517.88	3,508.87	74.4575		
Reverse Fuel Balance	xxxxxxxxxxxx	xxxxxxxxxxxx	(111,517.88)	xxxxxxxxxxxx			
Fuel Balance @ Avg Price	xxxxxxxxxxxx	xxxxxxxxxxxx	111,958.04	xxxxxxxxxxxx			
Total @ 05/01/2017 Avg Price	1,497.7	62,905	111,958.04	3,508.87	74.7514		

Weighted Avg Cost/BBL by Location

74.4575 2.3428

Weighted Avg Cost/BBL @ Avg Cost

74.7514 2.3428



**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
April 2017

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 03/31/2017	123.7	5,195	11,729.07	
Less: Est'd Inven Addition	0.0	XXXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	(43.3)	(1,818)	(5,952.70)	
Actual	43.1	1,811	6,001.92	
Consumed: Estimate	2.0	82	140.99	
Actual	(2.9)	(122)	(2,783.78)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 03/31/2017	122.57	5,148	9,135.50	74.5321
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(2.7)	(115)	(203.55)	74.3400
Balance @ 04/30/2017	119.8	5,033	8,931.95	74.5364
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 04/30/2017	119.8	5,033	8,931.95	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(8,931.95)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	8,957.71	xxxx
Total @ 05/01/2017 Avg Price	119.8	5,033	8,957.71	74.7514



**Hawaii Electric Light Company, Inc.**  
PURCHASED POWER PRICES FOR May 1, 2017

		<u>May 1, 2017</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
PGV (25 MW)	- on peak	10.439	6.560
PGV (22 MW)	- off peak	10.852	5.430
WAILUKU HYDRO	- on peak	10.439	7.240
	.	10.852	5.970
Other: (<100 KW)	Sch Q Rate	10.290	
		<u>May 1, 2017</u> (¢/kWh)	<u>Floor Rates</u> (¢/kWh)
HEP		13.695	
PGV Addtl 5 MW	- on peak	12.6700	0.0000
	- off peak	12.6700	0.0000
PGV Addtl 8 MW	- on peak	6.4400	0.0000
	- off peak	6.4400	0.0000



**Hawaii Electric Light Company, Inc.**  
**Energy Cost Reconciliation Adjustment**  
May 1, 2017

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$445,100)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$148,367)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$162,835)
5	Estimated MWh Sales (May 1, 2017)	83,138 mwh
6	Adjustment (Line 4 / Line 5)	(0.196) ¢/kwh

HAWAII ELECTRIC LIGHT COMPANY, INC.  
2017 FUEL OIL ADJUSTMENT RECONCILIATION SUMMARY  
(Thousand \$)

LINE	DESCRIPTION	Info Only March 2017 YTD Total No Deadband	collectn by company*	Basis for Recon March 2017 YTD Total Deadband	Collection or Refund by Company
ACTUAL COSTS:					
1	Generation	\$17,256.0		\$17,256.0	
2	Distributed Generation	\$0.6		\$0.6	
3	Purch Power	\$14,350.9		\$14,350.9	
4	TOTAL	<u>\$31,607.5</u>		<u>\$31,607.5</u>	
FUEL FILING COST (1)					
5	Generation	\$17,672.0		\$17,519.9	
6	Distributed Generation	\$0.6		\$0.6	
7	Purch Power	\$14,350.9		\$14,350.9	
8	TOTAL	<u>\$32,023.6</u>		<u>\$31,871.4</u>	
BASE FUEL COST					
9	Generation	\$19,461.5		\$19,461.5	
10	Distributed Generation	\$0.5		\$0.5	
11	Purch Power	\$17,912.7		\$17,912.7	
12	TOTAL	<u>\$37,374.7</u>		<u>\$37,374.7</u>	
13	FUEL-BASE COST (Line 8-12)	-\$5,351.1		-\$5,503.2	
14	ACTUAL FOA LESS TAX	-\$6,230.9		-\$6,230.9	
15	Less: FOA reconciliation adj for prior year	-\$1,172.8		-\$1,172.8	
16	ADJUSTED FOA LESS TAX	<u>-\$5,058.1</u>		<u>-\$5,058.1</u>	
17	FOA-(FUEL-BASE) (Line 16-13)	\$293.0 over		\$445.1 over	
ADJUSTMENTS:					
18	Current year FOA accrual reversal	\$0.0		\$0.0	
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>\$293.0 over</u>		<u>\$445.1 over</u>	

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

**Hawai'i Electric Light Company  
DEADBAND CALCULATION  
2017**

Jan 1 - Mar 2017  
YTD

	Notes	
<b>Industrial</b>		
Industrial Efficiency Factor (per D&O), BTU/kWh*	f	15,148
Industrial Deadband Definition, +/- BTU/kWh	d	100
Industrial Portion of Recorded Sales, kWh	a	45,535,860
Industrial Consumption (Recorded), MMBTU	b	674,045
Industrial Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	14,803
Lower limit of Industrial Deadband, BTU/kWh	e= f-d	15,048
Higher limit of Industrial Deadband, BTU/kWh	g=f+d	15,248
Industrial Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>15,048</b>
<b>Diesel</b>		
Diesel Efficiency Factor (per D&O), BTU/kWh*	f	10,424
Diesel Deadband Definition, +/- BTU/kWh	d	100
Diesel Portion of Recorded Sales, MWh	a	83,954,774
Diesel Consumption (Recorded), MMBTU	b	854,398
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	10,177
Lower limit of Diesel Deadband, BTU/kWh	e= f-d	10,324
Higher limit of Diesel Deadband, BTU/kWh	g=f+d	10,524
Diesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>10,324</b>
<b>Biodiesel</b>		
Biodiesel Efficiency Factor (per D&O), BTU/kWh*	f	0
Biodiesel Deadband Definition, +/- BTU/kWh	d	100
Biodiesel Portion of Recorded Sales, MWh	a	0
Biodiesel Consumption (Recorded), MMBTU	b	0
Biodiesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	0
Lower limit of Biodiesel Deadband, BTU/kWh	e= f-d	-100
Higher limit of Biodiesel Deadband, BTU/kWh	g=f+d	100
Biodiesel Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>0</b>
<b>Hydro</b>		
Hydro Efficiency Factor (per D&O), BTU/kWh*	f	12,621
Hydro Deadband Definition, +/- BTU/kWh	d	100
Hydro Portion of Recorded Sales, MWh	a	2,549,450
Hydro Consumption (Recorded), MMBTU	b	30,221
Hydro Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	11,854
Lower limit of Hydro Deadband, BTU/kWh	e= f-d	12,521
Higher limit of Hydro Deadband, BTU/kWh	g=f+d	12,721
Hydro Efficiency Factor for cost-recovery, BTU/kWh	h=c, e, or g	<b>12,521</b>

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

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**GENERATION FUEL FILING COST AND GENERATION BASE FUEL COST**  
**WITHOUT and WITH DEADBAND**  
**2017**

	<b>Without Deadband</b>	<b>With Deadband</b>
	<u>Jan 1 - Mar 31</u>	<u>As Filed</u> <u>Jan 1 - Mar 31</u>
<b><u>INDUSTRIAL FUEL FILING COST</u></b>		
Industrial Portion of Recorded Sales , kWh	45,535,860	45,535,860
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	689,777	685,224
\$/mmbtu	<u>\$8.4368</u>	<u>\$8.4368</u>
<b>TOTAL INDUSTRIAL \$000s TO BE RECOVERED</b>	<b>\$5,819.486</b>	<b>\$5,781.068</b>
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, kWh	83,954,774	83,954,774
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010324
Mmbtu adjusted for Sales Efficiency Factor	875,145	866,749
\$/mmbtu	<u>\$13.5435</u>	<u>\$13.5435</u>
<b>TOTAL DIESEL \$000s TO BE RECOVERED</b>	<b>\$11,852.551</b>	<b>\$11,738.846</b>
<b><u>HYDRO FUEL FILING COST</u></b>		
Hydro Portion of Recorded Sales , kWh	2,549,450	2,549,450
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012521
Mmbtu adjusted for Sales Efficiency Factor	32,177	31,922
\$/mmbtu	<u>\$0.0000</u>	<u>\$0.0000</u>
<b>TOTAL HYDRO \$000s TO BE RECOVERED</b>	<b>\$0.000</b>	<b>\$0.000</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s</b>	<b>\$17,672.0</b>	<b>\$17,519.9</b>
<b><u>CALCULATION OF GENERATION BASE FUEL COST</u></b>		
<b>TOTAL GENERATION BASE FUEL COST, \$000s</b>	<b>\$19,461.5</b>	<b>\$19,461.5</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s YTD</b>	<b>\$17,672.0</b>	<b>\$17,519.9</b>
<b>TOTAL GENERATION BASE FUEL COST YTD</b>	<b>\$19,461.5</b>	<b>\$19,461.5</b>

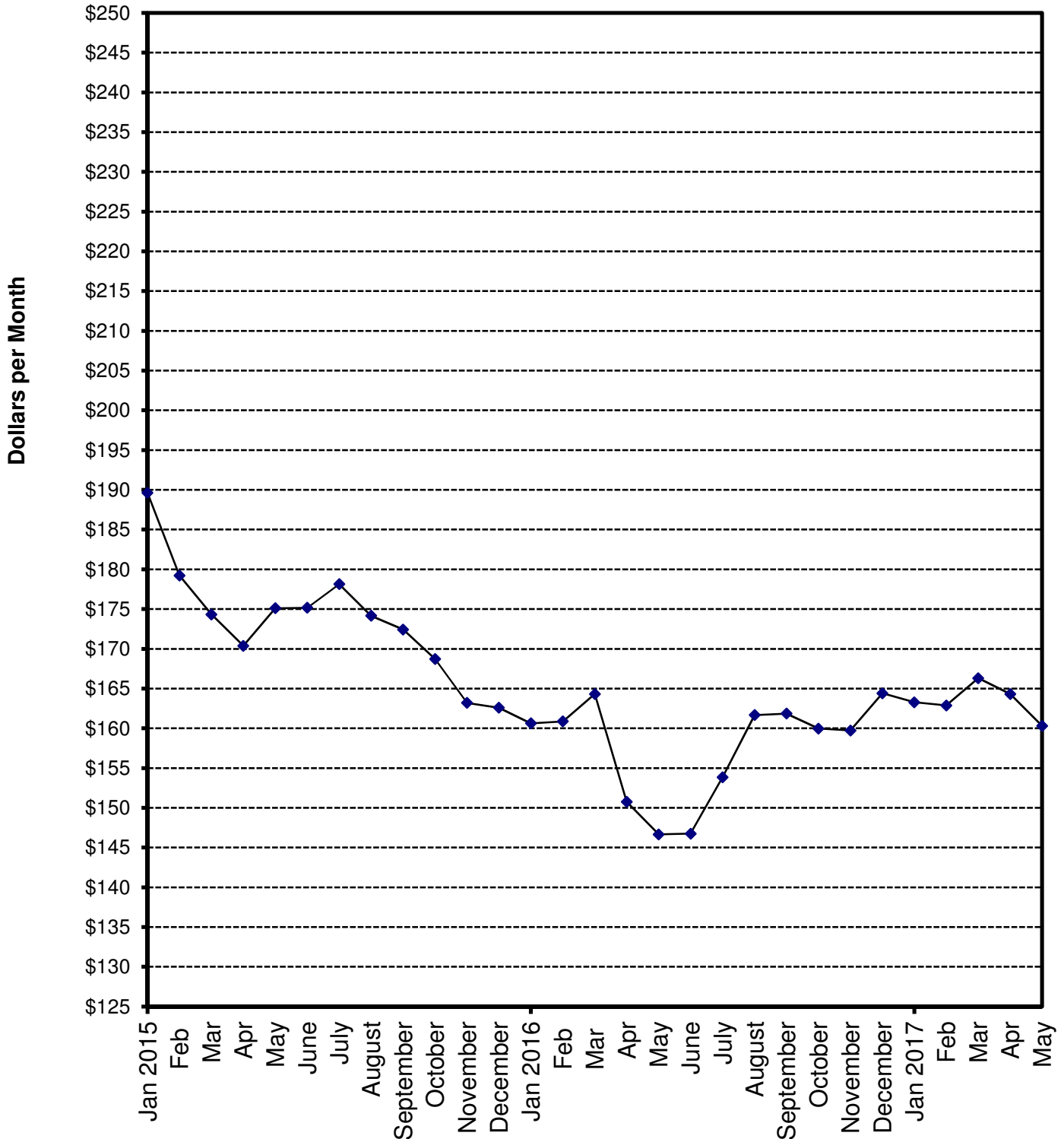
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2016 Cumulative Reconciliation Balance

Month	(1) YTD FOA Reconciliation	Qtr	(2) FOA Rec Adjust Variance	(3) FOA Rec Less Variance	(4) Try to Collect	(5) Actual Collect	(6) Month-end Cumulative Balance
November	791,200	[3]	44,375	746,825	(263,733)	(262,906)	565,708
December 15					(263,733)	(256,311)	309,397
January 16					(263,733)	(264,541)	44,856
February	(282,600)	[4]	10,260	(292,860)	94,200	95,382	(152,622)
March					94,200	96,004	(56,618)
April					94,200	97,345	40,727
May	2,320,900	[1]	2,178	2,318,722	(773,633)	(790,776)	1,568,673
June					(773,633)	(817,839)	750,834
July					(773,633)	(821,946)	(71,112)
August	645,200	[2]	(58,204)	703,404	(215,067)	(232,600)	399,692
September					(215,067)	(231,769)	167,923
October					(215,067)	(232,984)	(65,061)
November	785,400	[3]	(82,548)	867,948	(261,800)	(268,646)	534,241
December					(261,800)	(283,626)	250,615
January 17					(261,800)	(265,764)	(15,149)
February	1,366,400	[4]	(46,589)	1,412,989	(455,467)	(473,124)	924,716
March					(455,467)	(479,559)	445,157
April					(455,467)		
May	445,100	(1)	(45,713)	490,813	(148,367)		

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>	FUEL FACTOR		RESIDENTIAL BILL (\$)
	CENTS / KWH	RESIDENTIAL & COMMERCIAL	
		@ 500 KWH	@ 600 KWH
January 1, 2014	6.796	206.51	247.73
February 1, 2014	7.754	211.65	253.89
March 1, 2014	6.650	206.15	247.28
April 1, 2014	6.679	204.55	245.36
May 1, 2014	7.005	207.96	249.46
June 1, 2014	7.247	213.09	255.62
July 1, 2014	7.697	216.27	259.42
August 1, 2014	8.086	218.71	262.36
September 1, 2014	6.885	212.75	255.20
October 1, 2014	6.447	210.55	252.56
November 1, 2014	5.634	205.93	247.03
December 1, 2014	4.143	198.49	237.84
January 1, 2015	2.369	189.62	227.20
February 1, 2015	0.485	179.22	214.71
March 1, 2015	-0.519	174.32	208.85
April 1, 2015	-0.990	170.37	204.10
May 1, 2015	-0.420	175.10	209.79
June 8, 2015	-0.579	175.16	209.85
July 1, 2015	0.264	178.14	213.38
August 1, 2015	-0.586	174.16	208.61
September 1, 2015	-0.927	172.43	206.54
October 1, 2015	-1.671	168.73	202.10
November 1, 2015	-2.727	163.20	195.47
December 1, 2015	-2.859	162.59	194.74
January 1, 2016	-3.223	160.63	192.41
February 1, 2016	-2.962	160.87	192.69
March 1, 2016	-4.311	154.26	184.76
April 1, 2016	-4.715	150.76	180.57
May 1, 2016	-5.554	146.66	175.64
June 1, 2016	-5.546	146.74	175.74
July 1, 2016	-4.248	153.85	184.31
August 1, 2016	-3.094	161.67	193.69
September 1, 2016	-3.040	161.85	193.90
October 1, 2016	-3.427	159.97	191.65
November 1, 2016	-3.514	159.72	191.35
December 1, 2016	-2.584	164.41	196.97
January 1, 2017	-2.842	163.27	195.58
February 1, 2017	-2.956	162.87	195.09
March 1, 2017	-2.274	166.31	199.24
April 1, 2017	-2.425	164.31	196.83
May 1, 2017	-3.035	160.30	192.02

**HAWAII ELECTRIC LIGHT COMPANY, INC.  
RESIDENTIAL SURCHARGE DATA**

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
1/1/2014-1/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.3444 CENTS/KWH
2/1/2014-2/28/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4149 CENTS/KWH
3/1/2014-3/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4170 CENTS/KWH
4/1/2014-4/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4162 CENTS/KWH
4/1/2014-4/30/2014	SOLARSAVER ADJUSTMENT	-0.3486 CENTS/KWH
5/1/2014-5/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4248 CENTS/KWH
5/1/2014-5/31/2014	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2014-6/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4244 CENTS/KWH
6/1/2014-5/31/15	RBA RATE ADJUSTMENT	1.2225 CENTS/KWH
7/1/2014-7/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4252 CENTS/KWH
7/1/2014-11/30/14	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	1.0157 CENTS/KWH
8/1/2014-8/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5250 CENTS/KWH
9/1/2014-9/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5341 CENTS/KWH
10/1/2014-10/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.5314 CENTS/KWH
11/1/2014-11/30/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4226 CENTS/KWH
12/1/2014-12/31/2014	PURCHASED POWER ADJUSTMENT CLAUSE	2.4235 CENTS/KWH
12/1/2014-6/30/15	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.7583 CENTS/KWH
12/1/2014-6/30/15	GREEN INFRASTRUCTURE FEE	1.2900 DOLLARS/MONTH
1/1/2015-1/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.4245 CENTS/KWH
2/1/2015-2/28/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2273 CENTS/KWH
3/1/2015-3/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2539 CENTS/KWH
4/1/2015-4/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.2424 CENTS/KWH
4/1/2015-4/30/2015	SOLARSAVER ADJUSTMENT	-0.3084 CENTS/KWH
5/1/2015-5/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3109 CENTS/KWH
5/1/2015-4/30/16	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2015-6/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3064 CENTS/KWH
6/1/2015-6/7/2015	RBA RATE ADJUSTMENT	0.0000 CENTS/KWH
6/8/2015-05/31/16	RBA RATE ADJUSTMENT	1.3971 CENTS/KWH
7/1/2015-7/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3157 CENTS/KWH
7/1/2015-06/30/16	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.4749 CENTS/KWH
7/1/2015-12/31/2015	GREEN INFRASTRUCTURE FEE	1.4200 DOLLARS/MONTH
8/1/2015-8/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3703 CENTS/KWH
9/1/2015-9/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3651 CENTS/KWH
10/1/2015-10/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3699 CENTS/KWH
11/1/2015-11/30/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3204 CENTS/KWH
12/1/2015-12/31/2015	PURCHASED POWER ADJUSTMENT CLAUSE	2.3299 CENTS/KWH
1/1/2016-1/31/2016	PURCHASED POWER ADJUSTMENT CLAUSE	2.3260 CENTS/KWH
1/1/2016-06/30/16	GREEN INFRASTRUCTURE FEE	1.3000 DOLLARS/MONTH
2/1/2016 - 2/29/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1114 CENTS/KWH
3/1/2016 - 3/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1401 CENTS/KWH
4/1/2016 - 4/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.1228 CENTS/KWH
4/1/2016 - 4/30/16	SOLARSAVER ADJUSTMENT	-0.2779 CENTS/KWH
5/1/2016 - 5/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8623 CENTS/KWH
5/1/2016	SOLARSAVER ADJUSTMENT	0.0000 CENTS/KWH
6/1/2016 - 6/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8442 CENTS/KWH
<b>6/1/2016</b>	<b>RBA RATE ADJUSTMENT</b>	<b>1.4241 CENTS/KWH</b>
7/1/2016-7/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8909 CENTS/KWH
7/1/2016	GREEN INFRASTRUCTURE FEE	1.1300 DOLLARS/MONTH
<b>7/1/2016</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.5865 CENTS/KWH</b>
8/1/2016-8/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3000 CENTS/KWH
9/1/2016-9/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.2824 CENTS/KWH
10/1/2016-10/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.2930 CENTS/KWH
11/1/2016-11/30/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3298 CENTS/KWH
12/1/2016-12/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	2.3371 CENTS/KWH
1/1/2017-1/31/2017	PURCHASED POWER ADJUSTMENT CLAUSE	2.3400 CENTS/KWH
<b>1/1/2017</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.2700 DOLLARS/MONTH</b>
2/1/2017 - 2/28/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3737 CENTS/KWH
3/1/2017 - 3/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3809 CENTS/KWH
4/1/2017-4/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.3781 CENTS/KWH
4/1/2017-4/30/17	SOLARSAVER ADJUSTMENT	-0.2462 CENTS/KWH
<b>5/1/2017-5/31/17</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.9396 CENTS/KWH</b>
<b>5/1/2017</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>

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



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

	Rate		Charge (\$) at 500 Kwh			
	4/01/17	5/01/17	4/01/17	5/01/17	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel Energy Charge	¢/kwh	16.2487	16.2487	\$81.24	\$81.24	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$62.72	\$62.72	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$29.11	\$29.11	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$154.46	\$154.46	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.4241	1.4241	\$7.12	\$7.12	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	2.3781	1.9396	\$11.89	\$9.70	-\$2.19
<b>PBF Surcharge</b>	¢/kwh	0.5865	0.5865	\$2.93	\$2.93	\$0.00
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	(0.2462)	0.0000	-\$1.23	\$0.00	\$1.23
<b>Energy Cost Adjustment</b>	¢/kwh	(2.4250)	(3.0350)	-\$12.13	-\$15.18	-\$3.05
<b>Green Infrastructure Fee</b>	\$	1.2700	1.2700	\$1.27	\$1.27	\$0.00
<b>Avg Residential Bill at 500 kwh</b>				\$164.31	\$160.30	
				Increase (Decrease -)		-\$4.01
				% Change		-2.44%

	Rate		Charge (\$) at 600 Kwh			
	4/01/17	5/01/17	4/01/17	5/01/17	Difference	
<b>Base Rates</b>	effective date:	4/9/2012	4/9/2012			
Base Fuel/Energy Charge	¢/kwh	16.2487	16.2487	\$97.49	\$97.49	\$0.00
Non-fuel Fuel Energy Charge	¢/kwh			\$77.27	\$77.27	\$0.00
First 300 kWh per month	¢/kwh	11.2019	11.2019	\$33.61	\$33.61	\$0.00
Next 700 kWh per month	¢/kwh	14.5537	14.5537	\$43.66	\$43.66	\$0.00
Customer Charge	\$	10.50	10.50	\$10.50	\$10.50	\$0.00
<b>Total Base Charges</b>				\$185.26	\$185.26	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh	1.4241	1.4241	\$8.54	\$8.54	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh	2.3781	1.9396	\$14.27	\$11.64	-\$2.63
<b>PBF Surcharge</b>	¢/kwh	0.5865	0.5865	\$3.52	\$3.52	\$0.00
<b>DSM Adjustment</b>	¢/kwh	0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh	(0.2462)	0.0000	-\$1.48	\$0.00	\$1.48
<b>Energy Cost Adjustment</b>	¢/kwh	(2.4250)	(3.0350)	-\$14.55	-\$18.21	-\$3.66
<b>Green Infrastructure Fee</b>	\$	1.2700	1.2700	\$1.27	\$1.27	\$0.00
<b>Avg Residential Bill at 600 kwh</b>				\$196.83	\$192.02	
				Increase (Decrease -)		-\$4.81
				% Change		-2.44%