



June 28, 2017

JAY IGNACIO, P. E.  
President

FILED

2017 JUN 28 P 4: 15

The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
Kekuaaoa Building, First Floor  
465 South King Street  
Honolulu, Hawai'i 96813

PUBLIC UTILITIES  
COMMISSION

Dear Commissioners:

Subject: Hawai'i Electric Light Energy Cost Adjustment Factor for July 2017

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for July 2017 is -3.220 cents per kilowatt-hour ("kWh"), a decrease of 1.877 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$158.79, a decrease of \$10.03 compared to rates effective June 1, 2017. The decrease in the typical residential bill is due to the decrease in the Energy Cost Adjustment factor (-\$9.38), increase in the Purchase Power Adjustment Clause rate (+\$0.25), decrease in the Public Benefit Fund Surcharge (-\$0.81), and the decrease in the Green Infrastructure Fee (-\$0.09).

Hawai'i Electric Light's fuel composite cost of generation decreased 198.02 cents per million BTU to 979.19 cents per million BTU. The distributed generation increased to 0.611 cents per kWh to 13.689 cents per kWh. The composite cost of purchased energy decreased 0.829 cents per kWh to 11.303 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 July 1, 2017.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>6/01/17</u>	<u>7/01/17</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,177.21	979.19	(198.02)
Dispersed Generation Energy, ¢/kWh	13.078	13.689	0.611
Purchased Energy, ¢/kWh	12.132	11.303	(0.829)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(1.343)	(3.220)	(1.877)
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(1.343)	(3.220)	(1.877)
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$168.82	\$158.79	(\$10.03)
600 KWH Consumption - \$/Bill	\$202.25	\$190.22	(\$12.03)

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

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

<u>Line</u>		
1	Effective Date	July 1, 2017
2	Supercedes Factors of	June 1, 2017

**GENERATION COMPONENT**

<b>CENTRAL STATION WITH WIND/HYDRO COMPONENT</b>					
FUEL PRICES, ¢/mmbtu					
3					
4	Hill Industrial		780.93		
5	Puna Industrial		799.13		
6	Keahole Diesel		1,172.57		
6a	Keahole ULSD		1,354.78		
7	Waimea ULSD Diesel		1,352.59		
8	Hilo Diesel		1,146.32		
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,331.41		
9	Puna Diesel		1,145.31		
10	Wind		0.00		
11	Hydro		0.00		
BTU MIX, %					
12					
13	Hill Industrial		41.764		
14	Puna Industrial		6.513		
15	Keahole Diesel		50.586		
15a	Keahole ULSD		0.015		
16	Waimea ULSD Diesel		0.008		
17	Hilo Diesel		0.000		
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.005		
18	Puna Diesel		0.651		
19	Wind		0.000		
20	Hydro		0.458		
			100.000		
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		979.19		
22	% Input to System kWh Mix		45.057		
EFFICIENCY FACTOR, mmbtu/kWh					
	(A)	(B)	(C)	(D)	
		Eff Factor	Percent of	Weighted	
	<u>Fuel Type</u>	<u>mmbtu/kwh</u>	<u>Centrl Stn +</u>	<u>Eff Factor</u>	
			<u>Wind/Hydro</u>		
23	Industrial	0.015148	37.068	0.005615	
24	Diesel	0.010424	58.110	0.006057	
25	Other	0.012621	4.822	0.000609	
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)				
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0122810	
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			5.41830	
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)			(1.69965)	
33	Revenue Tax Req Multiplier			1.0975	
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			(1.86537)	
				<b>DG ENERGY COMPONENT</b>	
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh <sup>2</sup>
					13.689
				36	% Input to System kWh Mix <sup>2</sup>
					0.009
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)
					0.00123
				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)
					(0.00819)
				42	Loss Factor
					1.067
				43	Revenue Tax Req Multiplier
					1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)
					(0.00959)
				SUMMARY OF	
				TOTAL GENERATION FACTOR, ¢/kWh	
				45	Cntrl Stn+Wind/Hydro (line 34)
					(1.86537)
				46	DG (line 44)
					(0.00959)
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)
					(1.87496)

<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 - July 1, 2017 (Page 2 of 2)

Line	<b>PURCHASED ENERGY COMPONENT</b>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		12.975
49	PGV	On Peak	10.287
50	PGV	Off Peak	10.555
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	10.287
56	Wailuku Hydro	Off Peak	10.555
57	Hawi Renewable Dev.	On Peak	10.287
58	Hawi Renewable Dev.	Off Peak	10.555
59	Tawhiri (Pakini Nui)	On Peak	13.470
60	Tawhiri (Pakini Nui)	Off Peak	12.330
61			
62	Small Hydro (>100 KW)	On Peak	10.287
63	Small Hydro (>100 KW)	Off Peak	10.555
64	Sch Q Hydro (<100 KW)		10.090
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		14.668
67	PGV	On Peak	21.380
68	PGV	Off Peak	13.135
69	PGV - Addt'l	On Peak	4.276
70	PGV - Addt'l	Off Peak	3.054
71	PGV - Add'l 8 MW	On Peak	2.900
72	PGV - Add'l 8 MW	Off Peak	5.639
73	Wailuku Hydro	On Peak	1.208
74	Wailuku Hydro	Off Peak	0.797
75	Hawi Renewable Dev.	On Peak	5.738
76	Hawi Renewable Dev.	Off Peak	2.916
77	Tawhiri (Pakini Nui)	On Peak	14.401
78	Tawhiri (Pakini Nui)	Off Peak	8.996
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)		0.238
83	FIT		0.654
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		11.303
85	% Input to System kWh Mix		54.934
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.20919
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))		(0.98595)
91	Loss Factor		1.067
92	Revenue Tax *		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(1.15458)

Line	<b>SYSTEM COMPOSITE</b>		
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))		(3.02954)
95	Not Used		0.000
96	Not Used		0.000
97	ECA Reconciliation Adjustment		(0.190)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))		(3.220)

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

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	49.1983	49.1983
Land Transportation Cost - \$/BBL	--	1.1469
Industrial Costs For Filing - \$/BBL	49.1983	50.3452
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	780.93	799.13

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	65.9371	65.9371	65.9371
Land Transportation Cost - \$/BBL	2.7753	1.1780	1.2370
Diesel Costs For Filing - \$/BBL	68.7124	67.1150	67.1741
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,172.57	1,145.31	1,146.32

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	75.1485	75.1485	75.1485	75.1485
Land Transportation Cost - \$/BBL	2.4802	2.3547	1.1414	-
ULSD Costs For Filing - \$/BBL	77.6287	77.5033	76.2900	75.1485
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,354.78	1,352.59	1,331.41	1,311.49

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	14.5729
\$/BBI Inv Cost:	75.1485
Fuel \$ (Prod Sim Consumption x Unit Cost)	1,095.14
Net kWh (from Prod Sim)	8,000
cents/kWh:	13.689

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 05/31/2017	0	0.00	37,661	2,017,086.80			
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	(27,533)	(1,539,576.20)			
Actual	0	0.00	25,263	1,334,695.23			
Consumed: Estimate	0	0.00	15,882	748,836.30			
Actual	0	0.00	(16,430)	(845,783.38)			
Balance Per G/L 05/31/2017	<u>0</u>	<u>0.00</u>	<u>34,843</u>	<u>1,715,258.75</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	33,851	1,673,370.00			
Consumed	<u>0</u>	<u>0.00</u>	<u>(25,053)</u>	<u>(1,233,359.19)</u>	106.5901	0.0000	106.5901
Balance @ 06/30/2017	0	0.00	43,641	2,155,269.56			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 06/30/2017	<u>0</u>	<u>0.00</u>	<u>43,641</u>	<u>2,155,269.56</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,155,269.56)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,147,064.68			
Total @ 07/01/2017 Avg Price	<u>0</u>	<u>0.00</u>	<u>43,641</u>	<u>2,147,064.68</u>			

Weighted Avg Cost/BBL by Location #DIV/0! 49.3863

Weighted Avg Cost/BBL @ Avg Cost #DIV/0! 49.1983

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 05/31/2017	5,405	279,152.55	6,022.31			
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	(3,282)	(179,058.29)	(3,924.42)			
Actual	3,227	172,059.10	3,963.88			
Consumed: Estimate	3,369	158,848.35	3,369.00			
Actual	(3,468)	(172,504.34)	(3,864.08)			
Balance Per G/L 05/31/2017	<u>5,251</u>	<u>258,497.37</u>	<u>5,566.69</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	3,786	172,461	4,527.07			
Consumed	(3,114)	<u>(153,302.22)</u>	(3,300.84)	49.2300	1.0600	50.2900
Balance @ 06/30/2017	<u>5,923</u>	<u>277,656.07</u>	<u>6,792.92</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>5,923</u>	<u>277,656.07</u>	<u>6,792.92</u>		1.1469	
Reverse Fuel Balance	XXXXXXXXXXXX	(277,656.07)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	291,401.76	XXXXXXXXXXXX			
Total @ 07/01/2017 Avg Price	<u>5,923</u>	<u>291,401.76</u>	<u>6,792.92</u>			

Weighted Avg Cost/BBL by Location

46.8776

1.1469

Weighted Avg Cost/BBL @ Avg Cost

49.1983

1.1469

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 05/31/2017	32,566.0	1,367,773.0	2,826,910.8	96,220.3			
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		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(49,412.7)	(2,075,334.0)	(3,983,812.4)	(140,500.1)			
Actual	52,587.1	2,208,657.0	4,061,807.1	146,829.12			
Consumed: Estimate	47,340.4	1,988,296.0	3,240,922.5	124,505.20			
Actual	(47,935.0)	(2,013,268.0)	(3,944,286.1)	(141,177.7)	82.2841		
Balance Per G/L 05/31/2017	35,145.8	1,476,124	2,201,541.80	85,876.82	62.6402		
Purchases	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	46,276.1	1,943,597.0	3,075,503.6	131,581.5	66.4598		
Consumed	(25,389.5)	(1,066,359.0)	(1,588,874.9)	(61,950.38)	62.5800	2.4400	65.0200
Balance @ 06/30/2017	56,032.4	2,353,362	3,688,170.51	155,507.96	65.8221		
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	56,032.4	2,353,362	3,688,170.51	155,507.96	65.8221		
Reverse Fuel Balance	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	(3,688,170.5)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	3,694,613.1	XXXXXXXXXXXXXXXXXX			
Total @ 07/01/2017 Avg Price	56,032.4	2,353,362	3,694,613.14	155,507.96	65.9371		

Weighted Avg Cost/BBL by Location

65.8221 2.7753

Weighted Avg Cost/BBL @ Avg Cost

65.9371 2.7753



HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 05/31/2017	3,924.9	164,844.0	288,124.2	4,485.4			
Less: Est'd Inven Addition	0.0	0.0	0.0	0.0			
Purchases: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Actual		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfers in: Estimate	(776.0)	(32,590.0)	(72,975.8)	(860.4)			
Actual	144.4	6,066.0	31,764.1	416.9			
Consumed: Estimate	479.7	20,147.0	32,839.6	551.6			
Actual	(548.6)	(23,043.0)	(77,776.1)	(514.5)			
Balance Per G/L 05/31/2017	3,224.4	135,424	201,975.98	4,079.07			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	1,565.0	65,728.0	104,088.2	1,735.2	66.5121		
Consumed	(1,875.8)	(78,783)	(117,386.67)	(2,382.25)	62.5800	1.2700	63.8500
Balance @ 06/30/2017	2,913.5	122,369	188,677.54	3,432.04	64.7587		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 06/30/2017	2,913.5	122,369	188,677.54	3,432.04	64.7587		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(188,677.54)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	192,110.74	XXXXXXXXXXXXXXXXXXXX			
Total @ 07/01/2017 Avg Price	2,913.5	122,369	192,110.74	3,432.04	65.9371		

Weighted Avg Cost/BBL by Location 64.7587 1.1780

Weighted Avg Cost/BBL @ Avg Cost 65.9371 1.1780

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 05/31/2017	1623.6	68,190	110,672	2,289			
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	-4.2	-176.0	0.0	-3.5			
Actual	5.7	238.0	96.6	0.0			
Consumed: Estimate	10.3	431.0	702.5	10.6			
Actual	-11.1	-466.0	-9729.6	-285.8			
Balance Per G/L 05/31/2017	1624.2	68,217	101,741.17	2,010.14	62.6402		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	1.2	50.0	0.0	0.9	0.0000		
Consumed	-117.9	-4952.0	-7378.5	-146.2	62.5800	1.2400	63.8200
Balance @ 06/30/2017	1,507.5	63,315	94,362.69	1,864.82	62.5955		
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	1,507.5	63,315	94,362.69	1,864.82	62.5955		
Reverse Fuel Balance		XXXXXXXXXXXX	-94,362.69	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	99,400.11	XXXXXXXXXXXX			
Total @ 07/01/2017 Avg Price	1,507.5	63,315	99,400.11	1,864.82	65.9371		

Weighted Avg Cost/BBL by Location 62.5955 1.2370

Weighted Avg Cost/BBL @ Avg Cost 65.9371 1.2370

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	BARREL LT	TOTAL
Balance at 05/31/2017	2,244.2	94,256	167,545.65	5,987.35			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(377.8)	(15,868)	(30,458.04)	(1,074.26)			
Actual	377.8	15,868	30,458.03	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate		(546)	0.00	(36.96)			
Actual		421	0.00	1,074.26			
Consumed: Estimate	122.7	5,153	9,275.40	322.68			
Actual	(200.6)	(8,424)	(13,910.59)	(987.09)	69.3548		
Balance Per G/L 05/31/2017	2,163.3	90,860	162,910.45	5,285.98	75.3053		
Purchases	188.7	7,926	13,366.25	536.59	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	1.7	71	0.00	4.81	0.00		
Consumed	(256.7)	(10,783)	(19,301.57)	(626.44)	75.1800	2.4400	77.6200
Balance @ 06/30/2017	2,097.0	88,074	156,975.13	5,200.94	74.8570		
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	2,097.0	88,074	156,975.13	5,200.94	74.8570		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(156,975.13)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	157,586.50	XXXXXXXXXXXX			
Total @ 07/01/2017 Avg Price	2,097.0	88,074	157,586.50	5,200.94	75.1485		

Weighted Avg Cost/BBL by Location

74.8570 2.4802

Weighted Avg Cost/BBL @ Avg Cost

75.1485 2.4802

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 05/31/2017	1,708.6	71,760.0	127,996.9	4,068.29			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(15,910)	(30,569.47)	(897.32)			
Actual		7,930.0	15,221.3	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	20.2	847	0.00	0.00			
Actual	(14.4)	(603)	0.00	447.25			
Consumed: Estimate	165.0	6,929	12,472.20	387.69			
Actual	(218.9)	(9,192)	(14,384.57)	(521.12)			
Balance Per G/L 05/31/2017	1,470.5	61,761	110,736.43	3,484.79	75.3053		
ULSD Purchases	188.5	7,917	14,275.27	446.52	75.7309		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	XXXXXXXXXXXX	394	0.00	0.00	#DIV/0!		
Consumed	(176.9)	(7,429)	(13,297.91)	(419.21)	75.1800	2.3700	77.5500
Balance @ 06/30/2017	1,491.5	62,643	111,713.79	3,512.10	74.9003		
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	1,491.5	62,643	111,713.79	3,512.10	74.9003		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(111,713.79)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	112,084.06	XXXXXXXXXXXX			
Total @ 07/01/2017 Avg Price	1,491.5	62,643	112,084.06	3,512.10	75.1485		

Weighted Avg Cost/BBL by Location

74.9003 2.3547

Weighted Avg Cost/BBL @ Avg Cost

75.1485 2.3547

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
June 2017

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 05/31/2017	1,503.3	63,138.0	115,294.2	1,568.7		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	(188.6)	(7,922)	(15,205.98)	(184.58)		
Actual	188.6	7,922	15,205.98	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate		383	0.00	8.92		
Actual		(535)	0.00	185.70		
Consumed: Estimate	48.8	2,049	3,688.20	52.70		
Actual	(76.1)	(3,198)	(8,109.65)	190.68		
Balance Per G/L 05/31/2017	1,472.3	61,837	110,872.70	1,822.14		
ULSD Purchases	188	7,890	14,224.37	183.84	1.80	
Estimated Purchases	0	-	-	-		
Transfer in	(8)	(351)	0.00	(8.18)		
Consumed	(31.1)	(1,306)	(2,337.74)	(147.88)	75.18	1.2400
Balance @ 06/30/2017	1,620.7	68,070	122,759.33	1,849.91		
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	1,620.7	68,070	122,759.33	1,849.91		
Reverse Fuel Balance	x	x	(122,759.33)	x		
Fuel Balance @ Avg Price	x	x	121,794.32	x		
Total @ 07/01/2017 Avg Price	1,620.7	68,070	121,794.32	1,849.91		

Weighted Avg Cost/BBL by Location

75.7440 1.1414

Weighted Avg Cost/BBL @ Avg Cost

75.1485 1.1414

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

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 05/31/2017	104.0	4,368	8,829.73	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	14.9	625	1,125.00	
Actual	(11.4)	(477)	(1,857.62)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 05/31/2017	107.52	4,516	8,097.11	75.3053
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(7.1)	(300)	(537.00)	75.1800
Balance @ 06/30/2017	100.4	4,216	7,560.11	75.3142
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 06/30/2017	100.4	4,216	7,560.11	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(7,560.11)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	7,543.48	xxxx
Total @ 07/01/2017 Avg Price	100.4	4,216	7,543.48	75.1485

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**CONTRACT PRICES EFFECTIVE June 1, 2017**

TYPE OF OIL BURNED

<b>INDUSTRIAL *</b>	<u>Hill Industrial</u>		<u>Puna Industrial</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	48.55	3.0583	48.55	3.0583
Ocean Transportation	44.10	2.6774	42.50	2.6774
Storage	28.69	1.9687	31.25	1.9687
Wharfage	4.78	0.2900	4.60	0.2900
Fees <sup>2</sup>	1.13	0.0712	1.13	0.0900
	<u>Hilo Diesel</u>		<u>Waimea Diesel</u>	
<b>DIESEL *</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	76.64	4.4907	80.37	4.7092
Ocean Transportation	45.69	1.8576	45.69	2.6774
Storage	26.13	1.5312	26.13	1.5312
Wharfage	4.95	0.2900	4.95	0.2900
Fees <sup>2</sup>	1.67	0.0975	1.67	0.0975
	<u>Kona Diesel</u>		<u>CT3 Diesel</u>	
	<u>¢/MBTU</u>	<u>\$/BBL</u>	<u>¢/MBTU</u>	<u>\$/BBL</u>
Tax <sup>1</sup>	78.51	4.6000	76.64	4.4907
Ocean Transportation	45.69	2.6774	45.69	2.6774
Storage	26.13	1.5312	26.13	1.5312
Wharfage	4.95	0.2900	4.95	0.2900
Fees <sup>2</sup>	1.67	0.0975	1.67	0.0975
	<u>ULSD</u>			
<b>ULSD **</b>	<u>¢/MBTU</u>	<u>\$/BBL</u>		
Tax <sup>1</sup>	26.38	1.8821		
Ocean Transportation	0.00	0.0000		
Storage	0.00	0.0000		
Wharfage	0.00	0.0000		
Fees <sup>2</sup>	1.67	0.0975		

<sup>1</sup> Tax includes HGET, Hawaii Use Tax, Liquid Fuel Tax, LUST Tax and Environmental Response Tax.

<sup>2</sup> Fees include Custom Duty and Fed Oil Spill Recovery

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 July 1, 2017

		<u>July 1, 2017</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	10.287	6.560
PGV (22 MW)	- off peak	10.555	5.430
WAILUKU HYDRO	- on peak	10.287	7.240
	.	10.555	5.970
Other: (<100 KW)	Sch Q Rate	10.090	
		<u>July 1, 2017</u> <u>(¢/kWh)</u>	<u>Floor Rates</u> <u>(¢/kWh)</u>
HEP		12.975	
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**  
July 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 (July 1, 2017)	85,763 mwh
6	Adjustment (Line 4 / Line 5)	(0.190) ¢/kwh

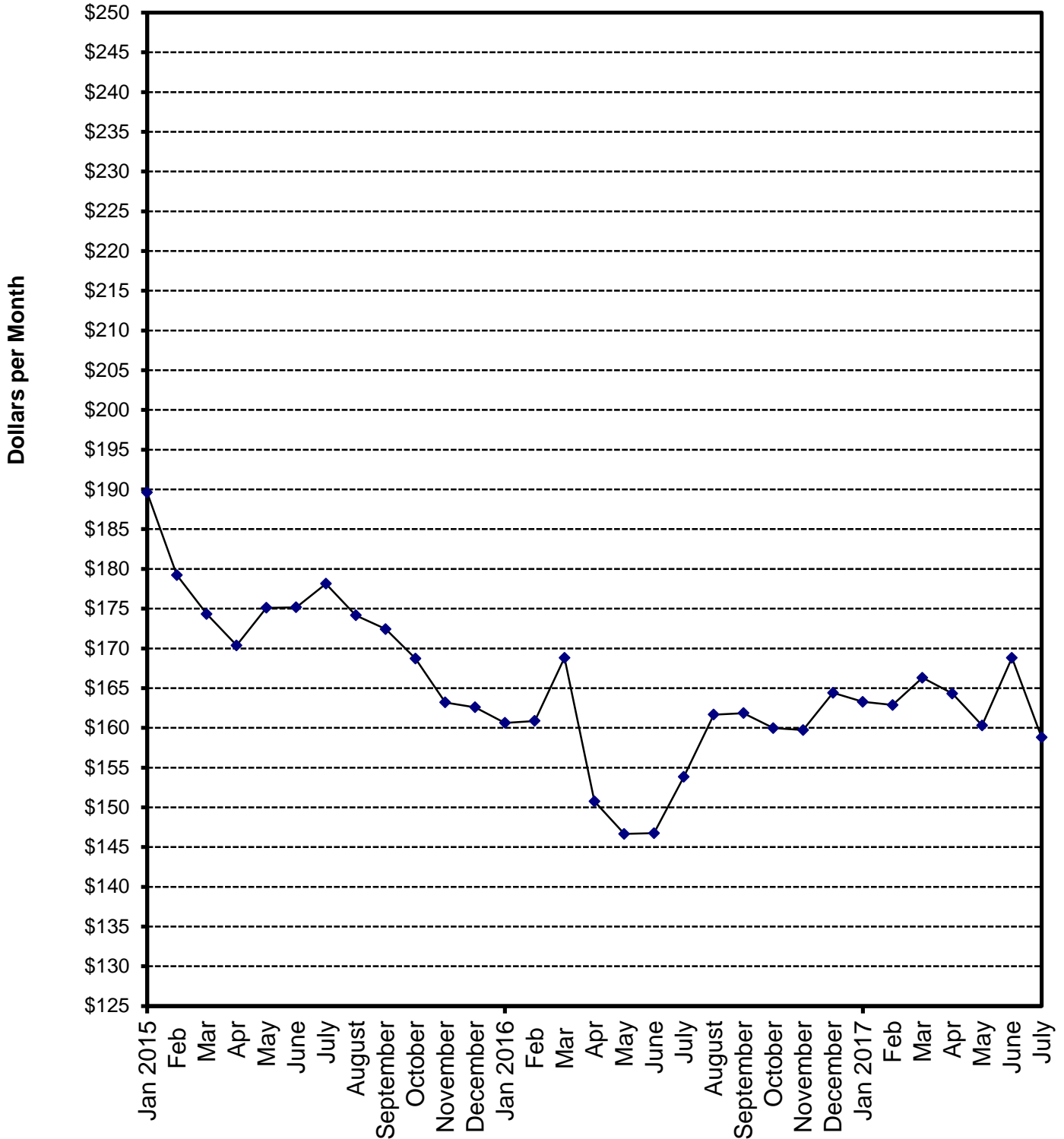
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2017 Cumulative Reconciliation Balance

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)	(478,693)	(33,536)
May	445,100	(1)	(45,713)	490,813	(148,367)	(154,562)	302,715
June					(148,367)		
July					(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>	<u>FUEL FACTOR</u> <u>CENTS / KWH</u>		
	<u>RESIDENTIAL &amp; COMMERCIAL</u>	<u>RESIDENTIAL BILL (\$)</u> <u>@ 500 KWH @ 600 KWH</u>	
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
June 1, 2017	-1.343	168.82	202.25
July 1, 2017	-3.220	158.79	190.22

**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
6/1/2016	RBA RATE ADJUSTMENT	1.4241 CENTS/KWH
7/1/2016-7/31/16	PURCHASED POWER ADJUSTMENT CLAUSE	1.8909 CENTS/KWH
7/1/2016	GREEN INFRASTRUCTURE FEE	1.1300 DOLLARS/MONTH
7/1/2016	RESIDENTIAL PBF SURCHARGE ADJUSTMENT	0.5865 CENTS/KWH
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
1/1/2017	GREEN INFRASTRUCTURE FEE	1.2700 DOLLARS/MONTH
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
5/1/2017-5/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	1.9396 CENTS/KWH
<b>5/1/2017</b>	<b>SOLARSAVER ADJUSTMENT</b>	<b>0.0000 CENTS/KWH</b>
6/1/2017-6/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	1.9225 CENTS/KWH
<b>6/1/2017</b>	<b>RBA RATE ADJUSTMENT</b>	<b>1.4533 CENTS/KWH</b>
<b>7/1/2017 - 7/31/2017</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>1.9710 CENTS/KWH</b>
<b>7/1/2017- 12/31/17</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.1800 DOLLARS/MONTH</b>
<b>7/1/2017</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.4244 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		
	6/01/17	7/01/17	6/01/17	7/01/17	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 1.4533	1.4533	\$7.27	\$7.27	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh 1.9225	1.9710	\$9.61	\$9.86	\$0.25
<b>PBF Surcharge</b>	¢/kwh 0.5865	0.4244	\$2.93	\$2.12	-\$0.81
<b>DSM Adjustment</b>	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Adjustment</b>	¢/kwh (1.3430)	(3.2200)	-\$6.72	-\$16.10	-\$9.38
<b>Green Infrastructure Fee</b>	\$ 1.2700	1.1800	\$1.27	\$1.18	-\$0.09
<b>Avg Residential Bill at 500 kwh</b>			\$168.82	\$158.79	

Increase (Decrease -)	-\$10.03
% Change	-5.94%

	Rate		Charge (\$) at 600 Kwh		
	6/01/17	7/01/17	6/01/17	7/01/17	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 1.4533	1.4533	\$8.72	\$8.72	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh 1.9225	1.9710	\$11.54	\$11.83	\$0.29
<b>PBF Surcharge</b>	¢/kwh 0.5865	0.4244	\$3.52	\$2.55	-\$0.97
<b>DSM Adjustment</b>	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>SolarSaver Adjustment</b>	¢/kwh 0.0000	0.0000	\$0.00	\$0.00	\$0.00
<b>Energy Cost Adjustment</b>	¢/kwh (1.3430)	(3.2200)	-\$8.06	-\$19.32	-\$11.26
<b>Green Infrastructure Fee</b>	\$ 1.2700	1.1800	\$1.27	\$1.18	-\$0.09
<b>Avg Residential Bill at 600 kwh</b>			\$202.25	\$190.22	

Increase (Decrease -)	-\$12.03
% Change	-5.95%