



JAY IGNACIO, P. E.  
President

January 29, 2018

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The Honorable Chair and Members  
of the Hawai'i Public Utilities Commission  
Kekuanaoa 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 February 2018

Hawai'i Electric Light Company, Inc.'s ("Hawai'i Electric Light") Energy Cost Adjustment factor for February 2018 is -0.579 cents per kilowatt-hour ("kWh"), an increase of 0.144 cents per kWh from last month. A residential customer consuming 500 kWh of electricity will be paying \$178.81, an increase of \$0.22 compared to rates effective January 1, 2018. The increase in the typical residential bill is due to the increase in the Energy Cost Adjustment factor (+\$0.72) and the decrease in the Purchase Power Adjustment Clause rate (-\$0.50).

Hawai'i Electric Light's fuel composite cost of generation increased 53.35 cents per million BTU to 1,309.84 cents per million BTU. The distributed generation increased 0.019 cents per kWh to 14.168 cents per kWh. The composite cost of purchased energy decreased 0.041 cents per kWh to 12.743 cents per kWh.

The attached sheets set forth the energy cost adjustment in cents per kWh for each rate schedule that is applicable for pro rata use beginning February 1, 2018.

Sincerely,

Attachments

cc: Division of Consumer Advocacy

## HAWAII ELECTRIC LIGHT COMPANY, INC.

ENERGY COST ADJUSTMENT FACTOR

	<u>EFFECTIVE DATES</u>		
	<u>1/01/18</u>	<u>02/01/18</u>	<u>Change</u>
<u>Composite Cost</u>			
Generation, ¢/mmbtu	1,256.49	1,309.84	53.35
Dispersed Generation Energy, ¢/kWh	14.149	14.168	0.019
Purchased Energy, ¢/kWh	12.784	12.743	(0.041)
<u>Residential Schedule "R"</u>			
Energy Cost Adjustment - ¢/kWh	(0.723)	(0.579)	0.144
<u>Others - "G,J,P,F"</u>			
Energy Cost Adjustment - ¢/kWh	(0.723)	(0.579)	0.144
Residential Customer with:			
500 KWH Consumption - \$/Bill	\$178.59	\$178.81	\$0.22
600 KWH Consumption - \$/Bill	\$213.95	\$214.22	\$0.27

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

ENERGY COST ADJUSTMENT (ECA) FILING - February 1, 2018 (Page 1 of 2)

<u>Line</u>		
1	Effective Date	February 1, 2018
2	Supersedes Factors of	January 1, 2018

**GENERATION COMPONENT**

<b>CENTRAL STATION WITH WIND/HYDRO COMPONENT</b>						
FUEL PRICES, ¢/mmbtu						
3						
4	Hill Industrial		1,012.82			
5	Puna Industrial		1,031.46			
6	Keahole Diesel		1,545.71			
6a	Keahole ULSD		1,440.56			
7	Waimea ULSD Diesel		1,432.97			
8	Hilo Diesel		1,518.57			
8a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		1,413.84			
9	Puna Diesel		1,519.90			
10	Wind		0.00			
11	Hydro		0.00			
BTU MIX, %						
12						
13	Hill Industrial		38.263			
14	Puna Industrial		5.319			
15	Keahole Diesel		53.470			
15a	Keahole ULSD		0.449			
16	Waimea ULSD Diesel		0.212			
17	Hilo Diesel		0.000			
17a	Hilo (Kanoelehua) ULSD Diesel <sup>1</sup>		0.049			
18	Puna Diesel		2.023			
19	Wind		0.000			
20	Hydro		0.215			
			100.000			
21	COMPOSITE COST OF GENERATION, CENTRAL STATION + WIND/HYDRO ¢/mmb		1,309.84			
22	% Input to System kWh Mix		46.243			
EFFICIENCY FACTOR, mmbtu/kWh						
	(A)	(B)	(C)	(D)		
		Eff Factor	Percent of	Weighted		
	Fuel Type	mmbtu/kwh	Centrl Stn +	Eff Factor		
			Wind/Hydro			
23	Industrial	0.015148	33.570	0.005085		
24	Diesel	0.010424	64.089	0.006681		
25	Other	0.012621	2.342	0.000296		
	(Lines 23, 24, 25): Col(B) x Col(C) = Col(D)					
26	Weighted Efficiency Factor, mmbtu/kWh [Lines 23(D) + 24(D) + 25(D)]			0.0120620		
27	WEIGHTED COMPOSITE CENTRAL STATION + WIND/HYDRO GENERATION COST, ¢/kWh (Lines (21 x 22 x 26))			7.30607		
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)			0.18812		
33	Revenue Tax Req Multiplier			1.0975		
34	CENTRAL STATION + WIND/HYDRO GENERATION FACTOR, ¢/kWh (Line (32 x 33))			0.20646		
				<b>DG ENERGY COMPONENT</b>		
				35	COMPOSITE COST OF DG ENERGY, ¢/kWh	14.168
				36	% Input to System kWh Mix	0.669
				37	WEIGHTED COMPOSITE DG ENERGY COST, ¢/kWh (Lines 35 x 36)	0.09478
				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)	0.08536
				42	Loss Factor	1.067
				43	Revenue Tax Req Multiplier	1.0975
				44	DG FACTOR, ¢/kWh (Line 41 x 42 x 43)	0.09996
				<b>SUMMARY OF</b>		
				TOTAL GENERATION FACTOR, ¢/kWh		
				45	Cntrl Stn+Wind/Hydro (line 34)	0.20646
				46	DG (line 44)	0.09996
				47	TOTAL GENERATION FACTOR, ¢/kWh (lines 45 + 46)	0.30642

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

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

ENERGY COST ADJUSTMENT (ECA) FILING - February 1, 2018 (Page 2 of 2)

Line	<b>PURCHASED ENERGY COMPONENT</b>		
	PURCHASED ENERGY PRICE, ¢/kWh		
48	HEP		15.185
49	PGV	On Peak	13.179
50	PGV	Off Peak	13.425
51	PGV - Add'l 5 MW	On Peak	12.860
52	PGV - Add'l 5 MW	Off Peak	12.860
53	PGV - Add'l 8 MW	On Peak	6.540
54	PGV - Add'l 8 MW	Off Peak	6.540
55	Wailuku Hydro	On Peak	13.179
56	Wailuku Hydro	Off Peak	13.425
57	Hawi Renewable Dev.	On Peak	13.179
58	Hawi Renewable Dev.	Off Peak	13.425
59	Tawhiri (Pakini Nui)	On Peak	12.270
60	Tawhiri (Pakini Nui)	Off Peak	11.800
61			
62	Small Hydro (>100 KW)	On Peak	13.179
63	Small Hydro (>100 KW)	Off Peak	13.425
64	Sch Q Hydro (<100 KW)		12.920
65	FIT		23.800
	PURCHASED ENERGY KWH MIX, %		
66	HEP		23.642
67	PGV	On Peak	18.604
68	PGV	Off Peak	11.694
69	PGV - Addt'l	On Peak	3.721
70	PGV - Addt'l	Off Peak	2.735
71	PGV - Add'l 8 MW	On Peak	5.682
72	PGV - Add'l 8 MW	Off Peak	6.295
73	Wailuku Hydro	On Peak	1.423
74	Wailuku Hydro	Off Peak	1.116
75	Hawi Renewable Dev.	On Peak	3.850
76	Hawi Renewable Dev.	Off Peak	2.255
77	Tawhiri (Pakini Nui)	On Peak	11.026
78	Tawhiri (Pakini Nui)	Off Peak	7.118
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)		0.202
83	FIT		0.637
			100.000
84	COMPOSITE COST OF PURCHASED ENERGY, ¢/kWh		12.743
85	% Input to System kWh Mix		53.088
86	WEIGHTED COMPOSITE PURCHASED ENERGY COST, ¢/kWh (Lines (84 x 85))		6.76500
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))		(0.43014)
91	Loss Factor		1.067
92	Revenue Tax *		1.0975
93	PURCHASED ENERGY FACTOR, ¢/kWh (Lines (90 x 91 x 92))		(0.50371)

Line	<b>SYSTEM COMPOSITE</b>	
94	GENERATION AND PURCHASED ENERGY FACTOR, ¢/kWh (Lines (47 + 93))	(0.19729)
95	Not Used	0.000
96	Not Used	0.000
97	ECA Reconciliation Adjustment	(0.382)
98	ECA FACTOR, ¢/kWh (Lines (94 + 95+ 96 + 97))	(0.579)

**Hawaii Electric Light Company, Inc.**  
FUEL OIL INVENTORY PRICES FOR February 1, 2018

**INDUSTRIAL FUEL COSTS:**

	<u>HILO</u>	<u>PUNA</u>
Average Industrial Fuel Cost - \$/BBL	63.8076	63.8076
Land Transportation Cost - \$/BBL	--	1.1742
Industrial Costs For Filing - \$/BBL	63.8076	64.9818
Conversion Factors - mmbtu/BBL	6.30	6.30
Industrial Costs For Filing - ¢/mmbtu	1,012.82	1,031.46

**DIESEL FUEL COSTS:**

	<u>KEAHOLE</u>	<u>PUNA CT-3</u>	<u>HILO</u>
Average Diesel Fuel Cost - \$/BBL	87.7409	87.7409	87.7409
Land Transportation Cost - \$/BBL	2.8377	1.3249	1.2475
Diesel Costs For Filing - \$/BBL	90.5786	89.0659	88.9884
Conversion Factors - mmbtu/BBL	5.86	5.86	5.86
Diesel Costs For Filing - ¢/mmbtu	1,545.71	1,519.90	1,518.57

**ULSD FUEL COSTS:**

	<u>KEAHOLE</u>	<u>WAIMEA</u>	<u>HILO</u>	<u>DISPERSED GENERATION</u>
Average ULSD Fuel Cost - \$/BBL	79.7544	79.7544	79.7544	79.7544
Land Transportation Cost - \$/BBL	2.7897	2.3550	1.2587	-
ULSD Costs For Filing - \$/BBL	82.5441	82.1094	81.0131	79.7544
Conversion Factors - mmbtu/BBL	5.73	5.73	5.73	5.73
ULSD Costs For Filing - ¢/mmbtu	1,440.56	1,432.97	1,413.84	1,391.87

**Dispersed Generation, cents per kWh**

	<u>COMPOSITE COST OF DISP. GEN.</u>
BBIs Fuel:	1010.3686
\$/BBI Inv Cost:	79.7544
Fuel \$ (Prod Sim Consumption x Unit Cost)	80,581.34
Net kWh (from Prod Sim)	568,750
cents/kWh:	14.168

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

	SHIPMAN INDUSTRIAL		HILL INDUSTRIAL		COST PER BARREL		
	BBL	COST	BBL	COST	EXCL LT	LT Total	
Balance at 12/31/2017	0	0.00	37,786	2,162,906.51			
Less: Est'd Inventory Addn			(1,628)	(98,014.72)			
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	(30,670)	(1,774,597.40)			
Actual	0	0.00	26,283	1,639,381.75			
Consumed: Estimate	0	0.00	33,852	1,881,470.42			
Actual	0	0.00	(34,372)	(1,910,371.65)			
Balance Per G/L 12/31/2017	<u>0</u>	<u>0.00</u>	<u>31,251</u>	<u>1,900,774.90</u>			
Purchases	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer out	xxxxxx	xxxxxxxxxxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxxxxxxxxx			
Transfer in	0	0.00	34,814	2,167,373.51			
Consumed	<u>0</u>	<u>0.00</u>	<u>(32,020)</u>	<u>(1,841,690.61)</u>	106.5901	0.0000	106.5901
Balance @ 01/01/2018	0	0.00	34,045	2,226,457.80			
Inv From Offsite/Transfers	0	0.00	0	0.00			
Est'd Inventory Addition	0	0.00	0	0.00			
Fuel Balance @ 01/01/2018	<u>0</u>	<u>0.00</u>	<u>34,045</u>	<u>2,226,457.80</u>			
Reverse Fuel Balance	xxxxxx	0.00	xxxxxx	(2,226,457.80)			
Fuel Bal @ Avg Price	xxxxxx	0.00	xxxxxx	2,172,328.93			
Total @ 02/01/2018 Avg Price	<u>0</u>	<u>0.00</u>	<u>34,045</u>	<u>2,172,328.93</u>			

Weighted Avg Cost/BBL by Location

#DIV/0!

65.3975

Weighted Avg Cost/BBL @ Avg Cost

#DIV/0!

63.8076

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

PUNA INDUSTRIAL

	BBL	COST	LAND TRANSP	COST PER BARREL		TOTAL
				EXCLUDE LT	LT	
Balance at 12/31/2017	6,598	373,576.95	7,504.87			
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	(2,336)	(139,289.23)	(2,793.25)			
Actual	2,281	155,097.95	2,817.16			
Consumed: Estimate	2,661	147,896.51	2,841.40			
Actual	(2,738)	(152,176.12)	(2,923.62)			
Balance Per G/L 12/31/2017	<u>6,466</u>	<u>385,106.06</u>	<u>7,446.56</u>			
Purchases	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	2,130	138,382	2,546.93			
Consumed	(2,721)	<u>(156,503.44)</u>	(3,094.99)	57.5169	1.1374	58.6543
Balance @ 01/01/2018	<u>5,875</u>	<u>366,984.98</u>	<u>6,898.50</u>			
Inventory From Offsite/Transfers	0	0.00	0.00			
Est'd Inventory Addition	0	0.00	0.00			
Fuel Bal @ Avg Price	<u>5,875</u>	<u>366,984.98</u>	<u>6,898.50</u>		<u>1.1742</u>	
Reverse Fuel Balance	XXXXXXXXXXXX	(366,984.98)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	374,869.51	XXXXXXXXXXXX			
Total @ 02/01/2018 Avg Price	<u>5,875</u>	<u>374,869.51</u>	<u>6,898.50</u>			

Weighted Avg Cost/BBL by Location

62.4655

1.1742

Weighted Avg Cost/BBL @ Avg Cost

63.8076

1.1742

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

KEAHOLE CT

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER EXCLUD LT	BARREL LT	TOTAL
Balance at 12/31/2017	48,449.3	2,034,869.0	4,237,863.8	143,018.5			
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	(33,344.2)	(1,400,458.0)	(2,914,056.2)	(94,811.0)			
Actual	33,227.2	1,395,541.0	3,001,750.3	93,438.18			
Consumed: Estimate	45,970.9	1,930,779.0	3,993,780.4	122,307.01			
Actual	(47,902.8)	(2,011,918.0)	(4,161,614.9)	(127,446.8)	86.8762		
Balance Per G/L 12/31/2017	46,400.3	1,948,813	4,157,723.39	136,505.87	89.6055		
Purchases	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer out	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX			
Transfer in	44,330.9	1,861,896.0	3,784,210.8	126,050.4	85.3629		
Consumed	(44,560.0)	(1,871,518.0)	(3,905,113.8)	(131,537.58)	87.6373	2.9519	90.5892
Balance @ 01/01/2018	46,171.2	1,939,191	4,036,820.45	131,018.65	87.4315		
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	46,171.2	1,939,191	4,036,820.45	131,018.65	87.4315		
Reverse Fuel Balance	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	(4,036,820.4)	XXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	4,051,105.3	XXXXXXXXXXXXXXXXXX			
Total @ 02/01/2018 Avg Price	46,171.2	1,939,191	4,051,105.32	131,018.65	87.7409		

Weighted Avg Cost/BBL by Location

87.4315 2.8377

Weighted Avg Cost/BBL @ Avg Cost

87.7409 2.8377



HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

PUNA CT-3

HS Diesel	BBL	GALLONS	COST EXCLUD LT	LAND TRANSP	COST PER EXCL LT	BARREL LT	TOTAL
Balance at 12/31/2017	3,746.2	157,342.0	327,617.0	5,025.5			
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	(398.6)	(16,743.0)	(35,974.7)	(442.0)			
Actual	1,129.8	47,451.0	126,199.4	1,461.7			
Consumed: Estimate	970.5	40,760.0	84,311.3	1,160.4			
Actual	(1,760.5)	(73,940.0)	(152,943.5)	(2,105.0)			
Balance Per G/L 12/31/2017	3,687.4	154,870	349,209.45	5,100.64			
Purchases		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX			
Transfer in	889.0	37,337.0	82,812.7	985.7	93.1552		
Consumed	(1,386.9)	(58,250)	(121,544.58)	(1,860.52)	87.6373	1.3415	88.9788
Balance @ 01/01/2018	3,189.5	133,957	310,477.59	4,225.82	97.3451		
Inven From Offsite/Transfers	0.0	0	0.00	0.00			
Est'd Inventory Addition	0.0	0	0.00	0.00			
Fuel Balance @ 01/01/2018	3,189.5	133,957	310,477.59	4,225.82	97.3451		
Reverse Fuel Balance		XXXXXXXXXXXXXXXXXXXX	(310,477.59)	XXXXXXXXXXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXXXXXXXXXX	279,845.52	XXXXXXXXXXXXXXXXXXXX			
Total @ 02/01/2018 Avg Price	3,189.5	133,957	279,845.52	4,225.82	87.7409		

Weighted Avg Cost/BBL by Location

97.3451 1.3249

Weighted Avg Cost/BBL @ Avg Cost

87.7409 1.3249

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

TOTAL HILO HS-DIESEL

HS Diesel	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCL LT	BARREL LT	TOTAL
Balance at 12/31/2017	1473.2	61,874	128,267	1,838			
Less: Est'd Inven Addition	0.0	0	0	0			
Purchases: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	0.0	0.0	0.0	0.0			
Actual	0.0	0.0	0.0	0.0			
Consumed: Estimate	17.2	724.0	1497.6	21.2			
Actual	-11.7	-493.0	-1019.8	-14.5			
Balance Per G/L 12/31/2017	1478.7	62,105	128,744.65	1,844.65	87.0667		
Purchases		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer out		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfer in	0.0	0.0	0.0	0.0	#DIV/0!		
Consumed	-48.2	-2024.0	-4223.3	-60.1	87.6373	1.2475	88.8848
Balance @ 01/01/2018	1,430.5	60,081	124,521.37	1,784.53	87.0474		
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	1,430.5	60,081	124,521.37	1,784.53	87.0474		
Reverse Fuel Balance		XXXXXXXXXXXX	XXXXXXXXXXXX -124,521.37	XXXXXXXXXXXX			
Fuel Balance @ Avg Price		XXXXXXXXXXXX	XXXXXXXXXXXX 125,513.40	XXXXXXXXXXXX			
Total @ 02/01/2018 Avg Price	1,430.5	60,081	125,513.40	1,784.53	87.7409		

Weighted Avg Cost/BBL by Location

87.0474 1.2475

Weighted Avg Cost/BBL @ Avg Cost

87.7409 1.2475

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

KEAHOLE DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL EXCLUD LT	LT	TOTAL
Balance at 12/31/2017	2,248.5	94,439	178,545.62	6,282.97			
Less: Est'd Inventory Addition	0.0						
Purchases: Estimate	(189.2)	(7,947)	(17,147.16)	(538.01)			
Actual	189.2	7,947	17,902.30	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate		(120)	0.00	(8.12)			
Actual		74	0.00	538.01			
Consumed: Estimate	94.4	3,963	7,454.11	267.95			
Actual	(178.5)	(7,496)	(14,099.42)	(506.83)	78.9989		
Balance Per G/L 12/31/2017	2,163.3	90,860	172,655.45	6,035.97	79.8099		
Purchases	0.0	0	0.00	0.00	0.0000		
Estimated Purchases	0.0	0	0.00	0.00			
Transfer in	(2.8)	(116)	0.00	(7.85)	0.00		
Consumed	(162.0)	(6,802)	(12,898.53)	(452.53)	79.6440	2.7942	82.4382
Balance @ 01/01/2018	1,998.6	83,942	159,756.92	5,575.58	79.9337		
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	1,998.6	83,942	159,756.92	5,575.58	79.9337		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(159,756.92)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	159,398.66	XXXXXXXXXXXX			
Total @ 02/01/2018 Avg Price	1,998.6	83,942	159,398.66	5,575.58	79.7544		

Weighted Avg Cost/BBL by Location

79.9337 2.7897

Weighted Avg Cost/BBL @ Avg Cost

79.7544 2.7897

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

WAIMEA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP	COST PER BARREL	LT	TOTAL
Balance at 12/31/2017	1,591.4	66,839.0	126,978.2	3,755.77			
Less: Est'd Inven Addition	0.0	0.0	0.00	0.00			
Purchases: Estimate		(7,949)	(17,151.47)	(448.32)			
Actual		7,949.0	17,151.5	0.00			
Transfers out: Estimate		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Actual		XXXXXXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXX			
Transfers in: Estimate	(2.6)	(109)	0.00	0.00			
Actual	3.1	129	0.00	448.32			
Consumed: Estimate	92.5	3,885	7,307.40	216.33			
Actual	(80.0)	(3,360)	(6,319.91)	(187.10)			
Balance Per G/L 12/31/2017	1,604.4	67,384	127,965.73	3,785.00	79.7602		
ULSD Purchases	0.0	0	0.00	0.00	#DIV/0!		
Estimated Purchases	-	0	0.00	0.00			
Transfer in	XXXXXXXXXXXX	112	0.00	0.00	#DIV/0!		
Consumed	(93.2)	(3,913)	(7,420.16)	(219.88)	79.6440	2.3600	82.0040
Balance @ 01/01/2018	1,513.9	63,583	120,545.57	3,565.13	79.6268		
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	1,513.9	63,583	120,545.57	3,565.13	79.6268		
Reverse Fuel Balance	XXXXXXXXXXXX	XXXXXXXXXXXX	(120,545.57)	XXXXXXXXXXXX			
Fuel Balance @ Avg Price	XXXXXXXXXXXX	XXXXXXXXXXXX	120,738.67	XXXXXXXXXXXX			
Total @ 02/01/2018 Avg Price	1,513.9	63,583	120,738.67	3,565.13	79.7544		

Weighted Avg Cost/BBL by Location

79.6268 2.3550

Weighted Avg Cost/BBL @ Avg Cost

79.7544 2.3550

HAWAII ELECTRIC LIGHT CO., INC.  
Estimated Weighted Average  
January 2018

KANOELEHUA DIESEL

ULSD	BBL	GALLONS	COST EXCLUDE LT	LAND TRANSP		
Balance at 12/31/2017	1,360.5	57,142.0	108,780.1	1,717.2		
Less: Est'd Inventory Addition	0.0	0	0.00	0.00		
Purchases: Estimate	0.0	0	0.00	0.00		
Actual	0.0	0	0.00	0.00		
Transfers out: Estimate			x	x	x	
Actual			x	x	x	
Transfers in: Estimate			0	0.00	0.00	
Actual			0	0.00	0.00	
Consumed: Estimate	37.4	1,572	967.04	26.58		
Actual	(35.3)	(1,484)	(2,791.29)	(43.91)		
Balance Per G/L 12/31/2017	1,362.6	57,230	106,955.87	1,699.85		
ULSD Purchases	0	0	0.00	0.00	#DIV/0!	
Estimated Purchases	0	-	-	-		
Transfer in	0	0	0.00	0.00		
Consumed	(33.2)	(1,395)	(967.04)	(26.58)	79.64398015	1.2621
Balance @ 01/01/2018	1,329.4	55,835	105,988.83	1,673.27		
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	1,329.4	55,835	105,988.83	1,673.27		
Reverse Fuel Balance	x	x	(105,988.83)	x		
Fuel Balance @ Avg Price	x	x	106,025.88	x		
Total @ 02/01/2018 Avg Price	1,329.4	55,835	106,025.88	1,673.27		

Weighted Avg Cost/BBL by Location

79.7265 1.2587

Weighted Avg Cost/BBL @ Avg Cost

79.7544 1.2587

**HAWAII ELECTRIC LIGHT CO., INC.**  
Estimated Weighted Average  
January 2018

DISPERSED GENERATION

	BBL	GALLONS	COST	COST/BBL
Balance at 12/31/2017	100.7	4,228	7,900.13	
Less: Est'd Inven Addition	0.0	XXXXXXXXX	XXXXXXXXXX	
Purchases: Estimate	0.0	0	0.00	
Actual	0.0	0	0.00	
Consumed: Estimate	5.6	236	443.90	
Actual	(6.0)	(253)	(475.87)	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Balance Per G/L 12/31/2017	100.26	4,211	7,868.16	78.4761
Purchases	0.0	0	0.00	0.0000
Transfer out	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Transfer in	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
Consumed	(0.5)	(23)	(43.61)	79.6440
Balance @ 01/01/2018	99.7	4,188	7,824.55	78.4697
Est'd Inventory Addition	0.0	0	0.00	
Fuel Balance @ 01/01/2018	99.7	4,188	7,824.55	
Reverse Fuel Balance	XXXXXXXXXX	XXXXXXXXXX	(7,824.55)	xxxx
Fuel Balance @ Avg Price	XXXXXXXXXX	XXXXXXXXXX	7,952.65	xxxx
Total @ 02/01/2018 Avg Price	99.7	4,188	7,952.65	79.7544

**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
**CONTRACT PRICES EFFECTIVE January 1, 2018**

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>	54.97	3.4635	54.97	3.4635
Ocean Transportation	44.78	2.7189	43.16	2.7189
Storage	28.69	1.9687	31.25	1.9687
Wharfage	5.60	0.3400	5.40	0.3400
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>	86.99	5.0972	86.99	5.0972
Ocean Transportation	46.40	1.9761	46.40	2.7189
Storage	26.13	1.5312	26.13	1.5312
Wharfage	5.80	0.3400	5.80	0.3400
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>	86.99	5.0972	86.99	5.0972
Ocean Transportation	46.40	2.7189	46.40	2.7189
Storage	26.13	1.5312	26.13	1.5312
Wharfage	5.80	0.3400	5.80	0.3400
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	1.9471		
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 February 1, 2018

		February 1, 2018 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
PGV (25 MW)	- on peak	13.179	6.560
PGV (22 MW)	- off peak	13.425	5.430
WAILUKU HYDRO	- on peak	13.179	7.240
	.	13.425	5.970
Other: (<100 KW)	Sch Q Rate	12.920	
		February 1, 2018 <u>(¢/kWh)</u>	Floor Rates <u>(¢/kWh)</u>
HEP		15.185	
PGV Addtl 5 MW	- on peak	12.8600	0.0000
	- off peak	12.8600	0.0000
PGV Addtl 8 MW	- on peak	6.5400	0.0000
	- off peak	6.5400	0.0000



**Hawaii Electric Light Company, Inc.**  
**Energy Cost Reconciliation Adjustment**  
February 1, 2018

<u>Line No.</u>	<u>Description</u>	<u>Amount</u>
1	Amount to be (returned) or collected	(\$825,100)
2	Monthly Amount ( $\frac{1}{3}$ x Line 1)	(\$275,033)
3	Revenue Tax Divisor	0.91115
4	Total (Line 2 / Line 3)	(\$301,853)
5	Estimated MWh Sales (February 1, 2018)	79,111 mwh
6	Adjustment (Line 4 / Line 5)	(0.382) ¢/kwh

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

LINE	DESCRIPTION	Info Only December 2017 YTD Total No Deadband	collectn by company*	Basis for Recon December 2017 YTD Total Deadband	Collection or Refund by Company
ACTUAL COSTS:					
1	Generation	\$63,885.6		\$63,885.6	
2	Distributed Generation	\$8.4		\$8.4	
3	Purch Power	\$67,506.7		\$67,506.7	
4	TOTAL	<u>\$131,400.7</u>		<u>\$131,400.7</u>	
FUEL FILING COST (1)					
5	Generation	\$64,864.5		\$64,369.1	
6	Distributed Generation	\$8.4		\$8.4	
7	Purch Power	\$67,506.7		\$67,506.7	
8	TOTAL	<u>\$132,379.6</u>		<u>\$131,884.2</u>	
BASE FUEL COST					
9	Generation	\$71,679.3		\$71,679.3	
10	Distributed Generation	\$6.0		\$6.0	
11	Purch Power	\$82,625.7		\$82,625.7	
12	TOTAL	<u>\$154,311.0</u>		<u>\$154,311.0</u>	
13	FUEL-BASE COST (Line 8-12)	-\$21,931.4		-\$22,426.8	
14	ACTUAL FOA LESS TAX	-\$22,992.0		-\$22,992.0	
15	Less: FOA reconciliation adj for prior year	-\$1,628.3		-\$1,628.3	
16	ADJUSTED FOA LESS TAX	<u>-\$21,363.7</u>		<u>-\$21,363.7</u>	
17	FOA-(FUEL-BASE) (Line 16-13)	\$567.7	over	\$1,063.1	over
ADJUSTMENTS:					
18	Current year FOA accrual reversal	\$1,422.1		\$1,422.1	
19	Other prior year FOA	\$0.0		\$0.0	
20	Other	\$0.0		\$0.0	
21	QUARTERLY FOA RECONCILIATION (Line 17+18+19+20)	<u>\$1,989.8</u>	over	<u>\$2,485.2</u>	over
22	Third Quarter FOA reconciliation			1,660.1	over
23	FOA Reconciliation to be Returned or Collected			825.1	over

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

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

	Notes	Jan 1 - Dec 2017 YTD
<b><u>Industrial</u></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	171,463,496
Industrial Consumption (Recorded), MMBTU	b	2,516,962
Industrial Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	14,679
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><u>Diesel</u></b>		
Diesel Efficiency Factor (per D&O), BTU/kWh*	f	10,424
Diesel Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Diesel Portion of Recorded Sales, MWh	a	305,755,156
Diesel Consumption (Recorded), MMBTU	b	3,161,195
Diesel Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	10,339
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>10,339</b>
<b><u>Biodiesel</u></b>		
Biodiesel Efficiency Factor (per D&O), BTU/kWh*	f	0
Biodiesel Deadband Definition, +/- BTU/kWh	d	<b>100</b>
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><u>Hydro</u></b>		
Hydro Efficiency Factor (per D&O), BTU/kWh*	f	12,621
Hydro Deadband Definition, +/- BTU/kWh	d	<b>100</b>
Hydro Portion of Recorded Sales, MWh	a	9,101,835
Hydro Consumption (Recorded), MMBTU	b	109,452
Hydro Efficiency Factor (Recorded), BTU/kWh	c=(b/a) x 1000	12,025
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>
	<b>Jan 1 - Dec 31</b>	<b>As Filed</b>
	<b>Jan 1 - Dec 31</b>	<b>Jan 1 - Dec 31</b>
<b><u>INDUSTRIAL FUEL FILING COST</u></b>		
Industrial Portion of Recorded Sales , kWh	171,463,496	171,463,496
Industrial Efficiency Factor (mmbtu/kwh)	0.015148	0.015048
Mmbtu adjusted for Sales Efficiency Factor	2,597,329	2,580,183
\$/mmbtu	<u>\$8.3173</u>	<u>\$8.3173</u>
<b>TOTAL INDUSTRIAL \$000s TO BE RECOVERED</b>	<b>\$21,602.794</b>	<b>\$21,460.183</b>
<b><u>DIESEL FUEL FILING COST</u></b>		
Diesel Portion of Recorded Sales, kWh	305,755,156	305,755,156
Diesel Efficiency Factor (mmbtu/kwh)	0.010424	0.010339
Mmbtu adjusted for Sales Efficiency Factor	3,187,192	3,161,203
\$/mmbtu	<u>\$13.5736</u>	<u>\$13.5736</u>
<b>TOTAL DIESEL \$000s TO BE RECOVERED</b>	<b>\$43,261.672</b>	<b>\$42,908.905</b>
<b><u>HYDRO FUEL FILING COST</u></b>		
Hydro Portion of Recorded Sales , kWh	9,101,835	9,101,835
Hydro Efficiency Factor (mmbtu/kwh)	0.012621	0.012521
Mmbtu adjusted for Sales Efficiency Factor	114,874	113,964
\$/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>\$64,864.5</b>	<b>\$64,369.1</b>
<b><u>CALCULATION OF GENERATION BASE FUEL COST</u></b>		
<b>TOTAL GENERATION BASE FUEL COST, \$000s</b>	<b>\$71,679.3</b>	<b>\$71,679.3</b>
<b>TOTAL GENERATION FUEL FILING COST, \$000s YTD</b>	<b>\$64,864.5</b>	<b>\$64,369.1</b>
<b>TOTAL GENERATION BASE FUEL COST YTD</b>	<b>\$71,679.3</b>	<b>\$71,679.3</b>

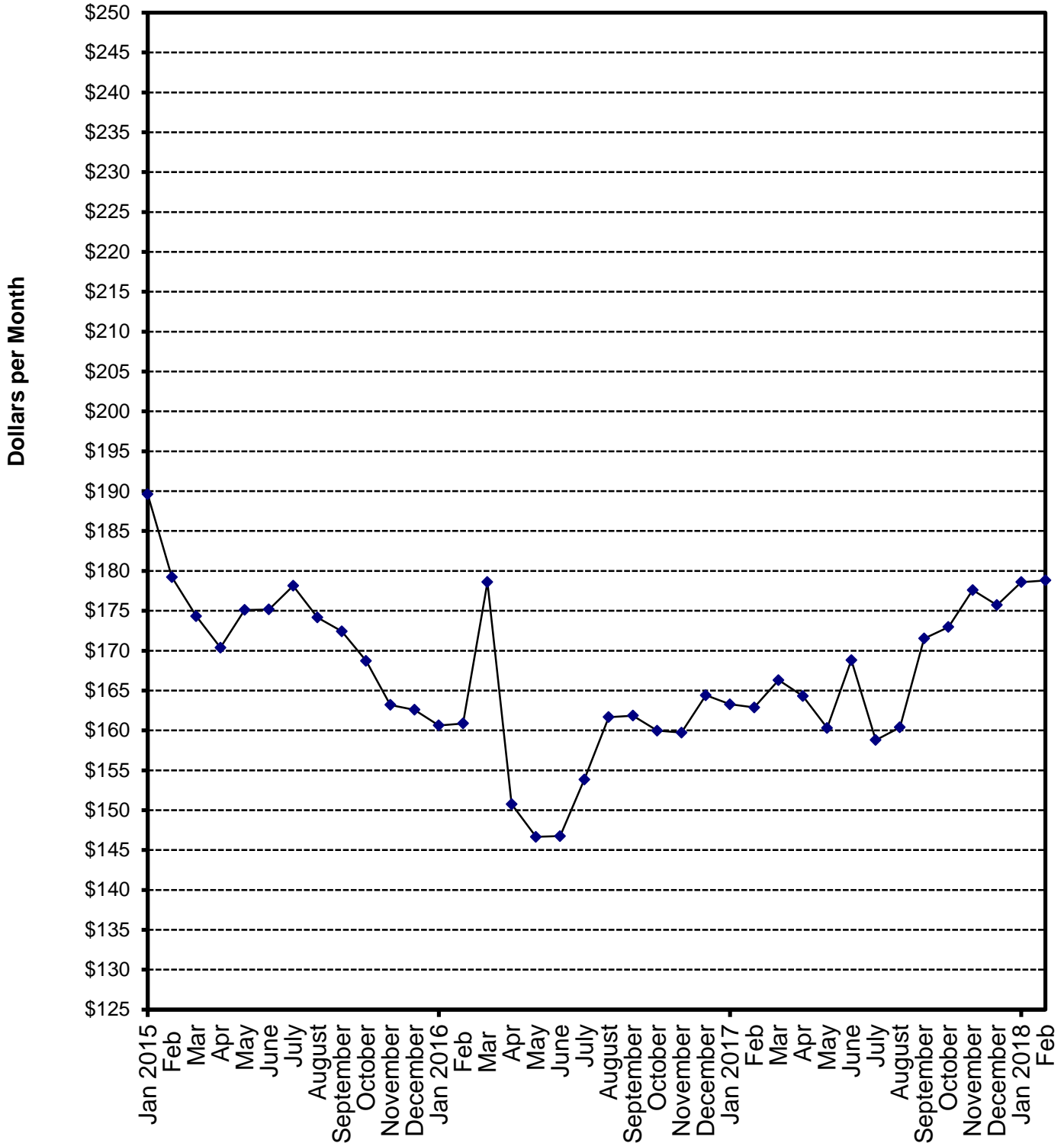
**HAWAII ELECTRIC LIGHT COMPANY, INC.**  
2017 Cumulative Reconciliation Balance

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	785,400	[3]	(82,548)	867,948	(261,800)	(268,646)	534,241
December 16					(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)	(151,295)	151,420
July					(148,367)	(157,548)	(6,128)
August	500,800	[2]	(32,349)	533,149	(166,933)	(180,924)	346,097
September					(166,933)	(178,788)	167,309
October					(166,933)	(178,629)	(11,320)
November	714,200	[3]	(35,027)	749,227	(238,067)	(250,818)	487,089
December					(238,067)	(243,403)	243,686
January 18					(238,067)		
February	825,100	[4]	(29,783)	854,883	(275,033)		

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</u>	<u>@ 600 KWH</u>
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
August 1, 2017	-3.643	160.39	192.15
September 1, 2017	-2.447	171.52	205.50
October 1, 2017	-2.131	172.97	207.23
November 1, 2017	-0.885	177.60	212.80
December 1, 2017	-1.405	175.02	209.69
January 1, 2018	-0.723	178.59	213.95
February 1, 2018	-0.579	178.81	214.22

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

EFFECTIVE DATE	DESCRIPTION OF SURCHARGE	RATE
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
6/1/2017	RBA RATE ADJUSTMENT	1.4533 CENTS/KWH
7/1/2017 - 7/31/2017	PURCHASED POWER ADJUSTMENT CLAUSE	1.9710 CENTS/KWH
7/1/2017- 12/31/17	GREEN INFRASTRUCTURE FEE	1.1800 DOLLARS/MONTH
<b>7/1/2017</b>	<b>RESIDENTIAL PBF SURCHARGE ADJUSTMENT</b>	<b>0.4244 CENTS/KWH</b>
8/1/2017-8/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7161 CENTS/KWH
9/1/2017-9/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7515 CENTS/KWH
<b>8/31/2017</b>	<b>Interim Rate Increase 2016</b>	<b>5.8800 PERCENT ON BASE</b>
<b>8/31/2017</b>	<b>RBA RATE ADJUSTMENT</b>	<b>0.6313 CENTS/KWH</b>
10/1/2017 - 10/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.7257 CENTS/KWH
11/1/2017 - 11/30/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.4067 CENTS/KWH
12/1/2017 - 12/31/17	PURCHASED POWER ADJUSTMENT CLAUSE	2.4090 CENTS/KWH
1/1/2018 - 1/31/18	PURCHASED POWER ADJUSTMENT CLAUSE	2.4105 CENTS/KWH
<b>1/1/2018-6/30/18</b>	<b>GREEN INFRASTRUCTURE FEE</b>	<b>1.3400 DOLLARS/MONTH</b>
<b>2/1/18-2/28/18</b>	<b>PURCHASED POWER ADJUSTMENT CLAUSE</b>	<b>2.3101 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		
	1/01/18	02/01/18	1/01/18	02/01/18	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>Interim Rate Increase 2016 TY</b>	% on base 5.8800%	5.8800%	\$9.08	\$9.08	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh 0.6313	0.6313	\$3.16	\$3.16	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh 2.4105	2.3101	\$12.05	\$11.55	-\$0.50
<b>PBF Surcharge</b>	¢/kwh 0.4244	0.4244	\$2.12	\$2.12	\$0.00
<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 (0.7230)	(0.5790)	-\$3.62	-\$2.90	\$0.72
<b>Green Infrastructure Fee</b>	\$ 1.3400	1.3400	\$1.34	\$1.34	\$0.00
<b>Avg Residential Bill at 500 kwh</b>			\$178.59	\$178.81	

Increase (Decrease -)	\$0.22
% Change	0.12%

	Rate		Charge (\$) at 600 Kwh		
	1/01/18	02/01/18	1/01/18	02/01/18	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>Interim Rate Increase 2016 TY</b>	% on base 5.8800%	5.8800%	\$10.89	\$10.89	\$0.00
<b>RBA Rate Adjustment</b>	¢/kwh 0.6313	0.6313	\$3.79	\$3.79	\$0.00
<b>Purchased Power Adj. Clause</b>	¢/kwh 2.4105	2.3101	\$14.46	\$13.86	-\$0.60
<b>PBF Surcharge</b>	¢/kwh 0.4244	0.4244	\$2.55	\$2.55	\$0.00
<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 (0.7230)	(0.5790)	-\$4.34	-\$3.47	\$0.87
<b>Green Infrastructure Fee</b>	\$ 1.3400	1.3400	\$1.34	\$1.34	\$0.00
<b>Avg Residential Bill at 600 kwh</b>			\$213.95	\$214.22	

Increase (Decrease -)	\$0.27
% Change	0.13%